## Index to Volume 25 (1983) of IR&D Bold type refers to issue numbers in Vol. 25 of Industrial Research & Development. Light numerals indicate page

-A-	
Ablinity Ablative photodecomposition	3, 193 8, 68.
Abrasion-resistant rubber Absolute novelty	1, 37.
Absorbance defector Absorbed current	12, 29. 10, 76. 9, 155. 11, 37.
Absorption refrigeration cycle Academic participation in industrial	11, 37.
sector	6, 46.
Academic research 8, 52; Academic respectability	1, 50.
Acceleration forces 6, 156 Accelerator beams and protons	5; <b>8,</b> 99. <b>9,</b> 50.
Accident reduction Accident simulation	9, 72.
Accountability for performance Accretionary prism	9, 48.
Acid rain 1, 47: 5, 5	
Acoustic environment Acoustic "signature"	5, 115.
Acrylic automobile finishes	10, 135. 11, 54.
Action Analytical Instruments Advanced degree 3, 101:	11, 54. 10, 140. 5, 123.
Advanced Energy Inc. Advanced engine technology	11, 80.
Advanced laser atmospheric remoti sensor	
Advanced Limiter Test-I	7, 37. 10, 35.
Advanced-very-large-scale integrat (AVLSI)	3, 37,
"Aerocapture" Affinity chromatography Agricultural technology 4, 4	4, 49. 8, 78.
Air conditioners 8, 101;	4; 5, 62. 11, 37. 4, 139.
Air-moving capacity	11 79
Air transportation 11, 79, Aircraft engines 4, 51	80, 82. 11, 79.
Aircraft fires Airfoil cores	4, 36,
Airframe design	7, 94. 11, 82. 2, 66.
Airglow photometer All-sky survey Alloy formulation	9, 74.
Alloy semiconductors	7, 83. 1, 89.
Along-track scanning radiometer Alpine fault	5, 78.
Aluminum electromigration AlGaAs lasers	3, 147. 5, 66.
Aluminum-silicon interaction Ameteur radio operators	5, 66. 3, 141. 9, 69.
American women in space Americium refinement process	9, 64. 10, 132. 3, 11.
Amoral individuals Amorphous glass-like, iron-based a	
	7; 8, 47.
Amorphous silicon technology Anaerobili digestion Analog/digital converters 5, 112;	12, 63. 11, 42. 10, 100. ; 10, 76.
Analytical institution is 2, 123	; 10, 76.
Artaryzer cen	11, 125,
Anik C Animal metabolic functions	9, 64. 9, 70.
Anion absorption Anisotropy effects 3, 105	12, 66,
Anion absorption Anisotropy effects Antarctic research Antares laser  1, 42; 2, 78	11.60
Antibodies 8 Anti-cancer work	12 11
Anticipation anxiety	9, 97.
"Anti-noise" research	9, 42
Antinuclear group Antiprotons	10, 50. 9, 50. ; 4, 187. ; 10, 31:
Antisocial activities 3, 193 Antitrust laws 5, 136; 8, 48	; 4, 187. ; 10, 31;
1	6, 76.
Apolio program Applied Magnetics Laboratory Inc. Arbitration	10, 115.
Arc lamp Arc process for titanium diboride	10, 115. 10, 31. 10, 107. 10, 127.
Argon-fluoride excimer laser Argonne National Laboratory	8, 68.
Argonaut Ariane 6, 7	10, 50.
Armature excitation Arms control stability	2; 9, 64. 3, 115. 5, 11
Arms reduction	2, 244.
Articles for IR&D	
Artificial intelligence 1, 37: 4.	6, 60. 17, 116. 9; 9, 31.
Artistic works 4, 2 Asbestos-free friction products	7, 90.
Asbestos separator materials. Aseptic fluid transfer system	4, 70. 9, 58.
Ash cloud discriminator Aspheric testing	1, 62. 9, 112.
Assembly line 5, 2 Asteroid mining base	3; 7, 23. 6, 72.
Astronomical emissions Astronomical observations	11, 58. 9, 72.
Astronomical survey Asynchronous acquisition	4, 51. 5, 120.
Atlantis 1, 4	14; 6, 54.

austra Hassarut a Severapi	nort. Light harre
Atmospheric backscatter Atom probe field ion microscop Atom smasher Atomic absorption Atomic analysis	3, 88: 9, 49.
Atomic fluorescence spectrom	
Atomic layers Atomic nuclei	4, 56; 8, 108.
Atomic orbitals Atomic spacing	11, 132. 4, 62.
Atomic spectroscopy Atomic vapor laser isotope se	9, 53. 11, 132. 4, 62. 11, 132. paration
Atomization cell ATS-3 satellite	10, 63. 2, 3, 100. 5, 37.
Attitude control 1' Auger electron emission	1, 60; 12, 58.
Aurora borealis 2, 66	; 4, 41; 5, 85.
Australian science budget Australian space agency	2, 78.
Automation systems Automobile Automobile air conditioning	
Auxiliary air Avalanche photodiode	8, 105. 12, 35.
Avionics system	11, 82.
Babcock & Wilcox Co.	10, 112,
Backscattered light Backscattering spectrometry s	7, 37. specificity 9, 158.
Backward stimulated Raman : spectrometer Bacterial conetics	4, 80.
Bacterial genetics Bacterial strain Bacteriological warfare	11, 42. 10, 208.
Bacteriological warfare Balance of funding Balance of trade	9, 106.
Baldridge, Malcolm Bardeen, Dr. John	10, 47. 3, 44.
Barnard 5	9, 86. 9, 74. 3, 122.
Barrier elimination Battelle's Marine Research Le Battelle Memorial Institute	ab 5, 103.
Battery 1, 37 Battery-powered cars	; 4, 70; 9, 35. 9, 35.
Battery technology Bellows Beta-delayed, incomoton radi	5, 00. 5, 147.
Beta-relaxation process Biaxial shock testing machine	5, 52. 3, 105. 8, 98.
Biaxial woven fiber Biconic shape for spacecraft	9, 78.
Bifluoride ion Big Bang	11, 54. 7, 62. 2, 74.
Binary-cycle technique Bindings Bingham plastic flow	9, 40.
Bioanalytical Systems Inc. Biocatalysts	10, 87. 8, 77.
Biotechnology tools Bipolar transistors	5, 51. 3, 44.
Birth of a star Bismuth-rich oxide	8, 60. 4, 124. 4, 41.
Black Brant IX rocket Black-dot Braille letters Black hole 3, 92; 4, 95; 5, 204	
Bloch, Felix	
Boron nitrides	9, 76. 6, 113.
Bragg-Bentano parafocusing Braille writing	1, 87.
Brake block composition Breeder fuel	7, 89. 2, 39; 12, 46.
Breeder reactor British astronomers	2, 51.
Broadband mode Budget allocations Budget FY84	11, 126. 4, 50. 4, 76; 11, 54. 11, 54.
Budget FY 85 Buffer layer	4, 76; 11, 54. 11, 54. 4, 62; 9, 148. 10, 124.
Bureau of Mines Bureaucratic restrictions	4, 62; 9, 148. 10, 124. 6, 46; 9, 62.
Buried-gate design Burn-through resistance	4, 36.
Burning temperatures Burnup goal Burst potential	12, 64. 12, 45. 7, 90.
Business analysis Business flowchart	5, 138. 10, 45.
Business plan Business projections	1, 33; 12, 23.
Buyer Profile Buying power	12, 52. 3, 92.
-c-	
CAD/CAM system Cable isolators	1, 80; 7, 46. 5, 130. 2, 103.
Cable isolators Calibration drift California spirit	
Callisto	4, 23; 7, 124. 2, 53.

als indicate page numbers	
Cambridge Ring Capacitance manometers 11 Capacitive key Capital expenses 1, 69; Capitalism Carbon fiber band Carbon fiber carbon connectivities	4, 74. 0, 162. 8, 108. 9, 107. 9, 208. 9, 76. 11, 94. 9, 98.
"Carbonate dip" Catalytic reactors Catalytic surface Cation exchange membrane Cation exchange separations Ceramic ferrite magnets Ceramic injection molding Ceramic surge arresters	6, 62. 4, 23. 9, 96. 2, 153. 3, 115. 7, 77. 4, 122.
Ceramics 2, 142; 4, 44 Cerenicov radiation Cesium atoms vibration Challenger 1, 43; 4, 49; 6, 50 Charge generation (ion) gages 11 Chemical decontamination system 1	; 7, 76. 3, 85. 9, 60. ; 9, 64. 0, 164. 12, 64. 0, 131. 4, 70.
Chemical matrix effects 2, 100; Chemical shift 10, 3; Chemical suppression 2, 151 Chemical vapor deposition system Chinese engineers	9, 62. 1, 124. 5, 141. 11, 92. 11, 90. ; 9, 99. 9, 150. 3, 43.
Chromatic aberration Chromatic color 1 Chromatography-automation system Chrome-on-glass lens Chromospheric density Civil Service promotion Clean room 2, 185; 7, 3, 95; 1 Cleaved coupled-cavity laser 9, 82:	5, 92,
Cloring systems Clutch facing material CMOS supercomputer CMOS/SOS Coal iliquefaction process 1 Coal mines	8, 78. 7, 90. 9, 58. 5, 92. 0, 131. 6, 40.
Coal samples Coal seam fracture zones Coal testing technology Coating machine 1 Cobalt-enhanced magnetic particle Coherent Anti-Stokes Raman Scatte 6, 62; Cohesive energy	12, 64. 6, 40. 9, 39. 1, 141. 8, 35. ering 11, 51. 4, 60.
Colliding Beam Accelerator 9, 49; Collision-induced dissociation 1 Color graphics 1, Color-negative photographic system	4, 60. 48, 58. 11, 64. 11, 52. 1, 127. 3, 105. 0, 108. 1, 106.
Combustion prechamber inserts Combustion synthesis Comets 7, 50: 9, 206:	9, 96. 11, 50. 4, 105. 2, 131. 7, 77. 4, 89. 11, 60.
Commercial aircraft telephone Commercial investment Commercial rockety business Commercial rockety business Commercial space ventures Commercial teletext broadcasting Communication control Communications disturbances	4, 35. 7, 70. 10, 58. 7, 48. 9, 64. 9, 40. 5, 199. 2, 66.
Communications network 2, 137; Communications satellites 1, 43, 64;	5, 112 10, 68
Compact magnets Company funding of R&D Competitive business 6, 46; 9, 9	3; 3, 37; 11, 50, 2, 166, 7, 33, 1, 71, 91, 203, 10, 60, 79, 82
Composite materials 6, 99; 11, Computsory licensing Computational chemistry Computer-generated colors Computer-generated colors Computer generated holographic le Computer graphics 92; 8, 39; 1, 14; Computer simulation 4, 128; Computer software technology 7, 72; Computerized bindings Computerized production Computerized shopping service Conduction devices 4,	79, 82 4, 29 1, 78 8, 3 nses 9, 111
Computer graphics 9, 114; Computer R&D 5, 92; 8, 39; 9, 54; Computer simulation 4, 128; Computer software technology	12, 40, 10, 35, 8, 104, 5, 97
Confidentiality agreements 7, Conformity Connectivity file	5, 204 1, 76
Conquest of disease Conscientious refusel Consensus management Constricted double-heterojunction I optical-cavity diodes	9, 17 5, 199 11, 25 arge- 5, 66

Consumer-rights groups	5, 136.
Consumer-rights groups Contaminated water Continuous culture techniques	5, 136. 7, 60. 8, 78.
Continuous-wave electron accelera	E 07
Contrast ratio	7, 37. 11, 107.
Contrast ratio	2, 109.
Controlled commodities Controlled-grain boundary	2, 144.
Controlled-pore ceramics	
Cooperative research programs 10,	12, 78.
Copolymer research	1, 48. 11, 73.
Copying machines	5, 23.
Copyright law4, 29; 7, 27, 47; 9, 31;	10, 66;
Copyright protection Coran, Aubert	9, 31.
Coran, Aubert Corporate culture	10, 25.
Corporate executives	10, 45,
Corporate money Corporate patent attorney	9, 93. 5, 138.
Corrosion 7, 82	8, 111.
Cosmic processes Cosmic rays	8, 163. 3, 85.
Cosmic x-ray sources Cost reduction 3, 122	12, 58.
Crab nebula	4, 99.
Creative coportunity	9, 106. 03, 204.
Crewe, Dr. Albert	3, 51.
	3, 193. 9, 76.
Crimp Critical technology	8, 54. 8, 100.
Cross-flow nebulizer	2, 101.
	4, 42.
Cruise efficiency	11, 82. 11, 84.
Cruise efficiency Crustal movements Cryogenic pumps	10, 61. 4, 142.
Cryogenic pumps Cryogenic refrigeration 8, 56	11.56
Cryogenic refrigeration 8, 56 Cryotron Crystal growth processes	3, 58. 9, 149.
Crystallography 6, 71 Cultural changes	, 09 100.
Cultural changes Cultured-cell models	9, 91. 12, 11.
	2, 52,
Current densities Curve fitting 9, 115	10, 35. ; 11, 99.
Cutting tool insert	12, 33.
Cyclotron resonance Cygnus X-1	11, 125. 12, 58.
_	,
—D—	
DC magnetron controller/power so	urces 10 130
Dark gray tule	10, 139. 4, 96.
	10, 139. 4, 96. ssor
Dark gray f. sie Data acquisition and control proce Data-collection monitor	10, 139. 4, 96. ssor 5, 114. 8, 85.
Dark gray tle Data acquisition and control proce Data-collection monitor Data communications	10, 139. 4, 96. ssor 5, 114. 8, 85. k. 23, 88.
Dark gray t. Jie Data acquisition and control proce Data-collection monitor Data communications 6 Data management 3, Data transmission loss	10, 139. 4, 96. ssor 5, 114. 8, 85. 1, 23, 88. 3; 7, 95.
Dark gray t sie Data acquisition and control proce Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processee	10, 139. 4, 96. ssor 5, 114. 8, 85. 4, 23, 88. 3; 7, 95. 4, 50.
Dark gray t sie Data acquisition and control proce Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processee	10, 139. 4, 96. ssor 5, 114. 8, 85. 1, 23, 88. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52.
Dark gray f. Je Data acquisition and control proce Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-on fragments De-arsenation processes Decay mode Decision-making 3, 134 Deep-space studies 3, 134	10, 139. 4, 96. 8sor 5, 114. 8, 85. 4, 23, 88. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 5, 52.
Dark gray t sie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection	10, 139. 4, 96. ssor 5, 114. 8, 85. 4, 23, 88. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 3; 5, 199. 5, 82. 6, 58.
Dark gray t sie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research	10, 139. 4, 96. 8507 5, 114. 8, 85. 3, 23, 88. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 3; 5, 199. 5, 82. 6, 58. 11, 10, 58.
Dark gray f. Jie Data acquisition and control proce Data-confunications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Decision-making Decep-space studies Defect detection Defense budget Defines nesearch Deficiencies in management	10, 139. 4, 96. 8507 5, 114. 8, 85. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 3; 5, 199. 5, 82. 6, 58. 5, 11. 10, 58.
Dark gray t Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Deficiencies in management	10, 139. 4, 96. 550r 5, 114. 8, 85. 5, 23, 88. 3; 7, 95. 4, 50. 11, 127. 5, 52. 5; 5, 199. 6, 51. 10, 58. 9, 42. 3, 71.
Dark gray t Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Deficiencies in management	10, 139. 4, 96. 5, 145. 8, 85. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 6, 58. 5, 11. 10, 58. 5, 11. 11, 122. 3, 114. 11, 112. 39; 4, 98.
Dark gray t .9le Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Definse research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Deposition machine Deposition machine Deposition malonine	10, 139. 4, 96. ssor 5, 114. 8, 85. 1, 23, 88. 3; 7, 95. 11, 127. 5, 52. 8, 58. 5, 11. 10, 58. 9, 42. 3, 114. 11, 112. 11, 114. 11, 141. 5, 134.
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Deficiencies in management Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Density profile Deposition machine Depreciation allowances Desalination plant Desaturation	10, 139. 4, 96. 8, 85. 1 145. 1, 23, 88. 3; 7, 95. 11, 127. 5, 52. 3; 5, 199. 3, 74. 11, 127. 5, 58. 5, 11. 10, 58. 99; 4, 98. 11, 141. 5, 134.
Dark gray t .ile Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Defense research Demanagement Desposition machine Deposition machine Deposition machine Dessalination plant Desaturation plant Desaturation and page makeup system	10, 139. 4, 96. 5, 114. 8, 85. 13, 77, 95. 11, 127. 3, 77. 5, 52. 10, 58. 5, 11. 10, 58. 11, 112. 11, 112. 11, 114. 11, 114. 11, 116. 11, 141. 11, 175. 11, 107.
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Deficiencies in management Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Dendriftic structure Dendriftic structure Density profile Deposition machine Despreciation allowances Desalination plant Design and page makeup system Design and page makeup system	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 88. 3; 7, 95. 11, 127. 5, 52. 5, 82. 6, 11. 10, 58. 5, 11. 10, 58. 5, 11. 11, 12. 11, 14. 11, 14. 11, 14. 11, 14. 11, 14. 11, 19. 19. 19. 19. 19. 19. 19. 19.
Dark gray t .9le Data acquisition and control proce Data-collection monitor Data confinence Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Density profile Deposition machine Deposition machine Desposition machine Desposition plant Desaturation Design and page makeup system Design patter protection Desik-top computer 2, 1 Development inhibitor releaser	10, 139. 4, 96. 5, 114. 8, 85. 1, 23. 88. 3; 7, 95. 11, 127. 3, 77. 2, 77. 2, 3; 5, 199. 5, 5, 82. 3, 114. 11, 107. 10, 95. 11, 10, 95. 11, 10, 95. 178; 5, 98.
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defect detection Defense budget Defect clester in management Demagnetization curve Density profile Dendritie structure Density profile Deposition machine Depreciation allowances Desalination plant Desaturation Design patent protection Desik-top computer 2, 1 Development inhibitor releaser technology	10, 139. 4, 96. 98. 99. 14. 8, 85. 1, 23. 88. 3: 7, 95. 4 1, 127. 3, 77. 2, 5, 52. 8, 5, 82. 3, 114. 11, 10, 58. 9, 42. 3, 114. 11, 10, 95. 11, 10, 95. 72. 10, 95. 98. 4, 36. 7, 124.
Dark gray t Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demorphic shructure Demorphic shructure Demorphic shructure Demorphic shructure Desposition machine Deposition machine Desposition machine Desposition plant Desalination plant Design patent protection Desik-lop computer Desk-lop computer Development inhibitor releaser technology Diagnostic immunology slide Diamond	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 85. 1, 23, 85. 1, 27. 5, 52. 11, 127. 5, 52. 11, 127. 5, 52. 11, 14. 11, 14. 11, 14. 11, 14. 11, 14. 11, 17. 11, 17. 12, 18. 13, 17. 14. 15. 13. 14. 15. 15. 16. 17. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19
Dark gray t .ile Data acquisition and control proce Data-collection monitor Data confinence Data confinence Data confinence Data confinence Data confinence Data management Sata transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Dendritic structure Deposition machine Despreciation allowances Desallmation plant Design patent protection Desik-top computer Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond-turned aspheric optics Delectric constant deleteor	10, 139. 4, 96. 5, 11 4. 8, 23, 88. 3, 7, 195. 11, 127. 12, 127. 11, 127. 11, 127. 11, 10, 58. 11, 17. 11, 10, 98. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 124. 13, 124. 14, 124. 17, 124. 18, 113. 18, 114. 19, 114. 19, 114. 10, 114. 11, 117. 11, 117. 11, 117. 11, 117. 11, 117. 12, 117. 13, 117. 14, 117. 15, 117. 16, 117. 17,
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data coculection monitor Data management Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Density profile Deposition machine Deposition machine Desposition machine Desposition machine Desaturation Design and page makeup system Design patent protection Desk-top computer 2, 1 Development inhibitor releaser technology Diagnostic immunology slide Diamond-turned aspheric optics Dielectric constant defector Delectric constant defector	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 85. 1, 23, 85. 1, 27. 1, 55. 11, 127. 5, 55. 5, 19. 10, 58. 11, 107. 10, 58. 11, 107. 10, 95. 11, 107. 11, 107. 10, 95. 11, 107. 10, 95. 10, 104. 10, 104.
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making 3, 134 Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Density profile Deposition machine Deposition machine Desposition machine Desposition machine Desaturation Design and page makeup system Design patent protection Desik-top computer 2, 1' Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond-turned aspheric optics Dielectric constant defector Dielectric constant defector Dielectric materials 2, 1- Diesel-methanol powered buses	10, 139. 4, 96. 55. 114. 8, 85. 123. 88. 3; 7, 95. 14, 527. 3, 77. 10, 95. 4, 96. 11, 122. 9; 4, 98. 11, 141. 13, 72. 11, 107. 10, 95. 9, 91. 11, 107. 10, 95. 9, 91. 13, 6, 105. 42; 6, 97. 124. 9, 148. 9, 155. 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,
Dark gray t. Jie Data acquisition and control proce Data acquisition and control proce Data codection monitor Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Deposition machine Design and page makeup system Design patient protection Desk-top computer Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond turned aspheric optics Defectric materials Deserved on the provened buses Diesel-methanol powered buses Diesel-methanol powered buses	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 85. 1, 23, 85. 1, 1, 27. 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5
Dark gray t. Jie Data acquisition and control proce Data acquisition and control proce Data codection monitor Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Deposition machine Design and page makeup system Design patient protection Desk-top computer Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond turned aspheric optics Defectric materials Deserved on the provened buses Diesel-methanol powered buses Diesel-methanol powered buses	10, 139. 4, 96. 5, 11 4. 8, 85. 1, 23, 85. 1, 27, 75. 11, 127. 5, 15, 15, 15, 15, 15, 15, 15, 15, 15, 1
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data cocilection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Density profile Depreciation allowances Desalination plan Design and page makeup system Desaluration and descort Desaluration Design and page makeup system Desaluration and descort Desaluration and desaluration and descort Desalur	10, 139.6 4, 96.6 55, 11 4.8 23, 885.8 327, 85.0 11, 1277.7 55, 195.0 11, 1277.7 55, 195.0 11, 1277.7 11, 198.0 11, 198.0
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making 3, 134 Deep-space studies Defect detection Defense budget Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Dendriftic structure Density profile Deposition machine Design and page makeup system Desaluration Design and page makeup system Desaluration Design and page makeup system Design patent protection Desik-top computer 2, 1' Desel-computer 2, 1' Desel-computer Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond-turned aspheric optics Dielectric constant defector Dielectric materials 2, 1 Diesel-methanol powered buses Diesel power station Diethylarsine Differential Absorption Lidar 7, 37 Differential Absorption Lidar 7, 37 Differential Absorption Lidar 7, 37 Differential pumping Diffusion coatings	10, 139. 4, 96. 55. 114. 8, 85. 123. 88. 3; 7, 95. 14, 527. 5, 529. 5, 511. 10, 55. 5, 111. 112. 112. 114. 11. 112. 114. 11. 112. 114. 11. 114. 11. 114. 11. 114. 11. 11
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management Jata transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Jeep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Dendriftic structure Density profile Deposition machine Deposition machine Desposition machine Design and page makeup system Design patent protection Desik-top computer 2, 1' Development inhibitor releaser technology Diagnostic immunology slide Diamond-turned aspheric optics Dielectric constant defector Dielectric materials 2, 1- Diesel-methanol powered buses Diesel power station Diethylarsine Differential Dumpring Diffusion coefficients Diffusion coefficients Diffusion coefficients Diffusion coefficients	10, 139. 4, 96. 55. 114. 8, 85. 1, 23, 88. 3; 7, 95. 11, 127. 3, 77. 10, 95. 11, 112. 9, 11, 104. 3, 72. 11, 107. 10, 95. 9, 113. 6, 105. 4, 86. 54. 5, 51. 3, 198. 5, 51. 3, 198. 5, 51. 3, 198. 5, 51. 10, 126. 6, 57. 124. 40, 12, 75. 12, 40. 2, 81. 11, 199. 12, 75. 12, 40. 2, 81. 11, 199. 12, 75. 12, 40. 2, 81. 11, 199. 12, 75. 12, 40. 12, 81. 11, 199. 12, 75. 12, 40. 12, 81. 11, 99. 11. 128.
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data codection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Design and page makeup system Desaltration Design and page makeup system Design patient protection Design and page makeup system Design patient protection Design and page makeup system Design patient protection Design and page makeup system De	10, 139. 4, 96. 5, 1 4. 8, 23, 88. 8, 3; 7, 4, 52. 11, 127. 5, 1, 127. 5, 1, 127. 5, 1, 127. 11, 128. 11, 134. 11, 198. 11, 134. 11, 107. 13, 134. 14, 14, 14, 14, 14, 14, 14, 14, 14, 14,
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data codection monitor Data confirmations Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendrities structure Density profile Deposition machine Design and page makeup system Desaltration Desaltrat	10, 139.6 4, 96 5, 1 4, 85.8 5, 1 4, 85.8 5, 1 4, 85.8 5, 1 4, 127.7 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Density profile Deposition machine Deposition machine Design and page makeup system Desaturation Design and page makeup system Desaturation Design and page makeup system Design patent protection Desik-top computer 2, 1' Development inhibitor releaser technology Diagnostic immunology slide Diamond Distruction desire desire Diedectric constant defector Dielectric constant defector Dielectric materials 2, 1- Diesel-methanol powered buses Dieselpower station Diethylarsine Differential Absorption Lidar 7, 37 Differential pumping Diffusion coefficients	10, 139. 4, 96. 55. 11. 127. 5, 56. 82. 6, 54. 11. 112. 11. 114. 11. 112. 11. 114. 11. 112. 11. 11. 114. 11. 114. 11. 112. 11. 11. 11. 11. 11. 11. 11. 1
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data confinence Data confinence Data confinence Data confinence Data confinence Data confinence Data management Salaghter-ion fragments Decargemation processes Decay mode Decision-making Dendritic structure Desposition machine Deposition machine Desposition machine Desposition machine Desposition machine Desposition machine Desposition plant Desposition Desp	10, 139. 4, 96. 55. 114. 8, 85. 1, 23, 88. 3; 7, 95. 11, 127. 3, 75. 25. 5, 199. 4, 96. 11, 127. 5, 56. 58. 11, 112. 11, 107. 10, 95. 9, 11. 12, 11, 107. 10, 95. 9, 11. 12, 11, 107. 10, 95. 11, 10, 105. 11, 105. 105. 11, 105. 105. 11, 105. 105. 11, 105. 5, 66. 2, 101. 11, 128. 7, 48. 10, 115. 5, 66. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 27. 101. 11, 127. 77. 78. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data confinence Data confinence Data confinence Data confinence Data confinence Data confinence Data management Salaghter-ion fragments Decargemation processes Decay mode Decision-making Dendritic structure Desposition machine Deposition machine Desposition machine Desposition machine Desposition machine Desposition machine Desposition plant Desposition Desp	10, 139. 4, 96. 5, 1 4. 8, 23, 88. 3, 7, 4, 52. 11, 127. 5, 1, 10. 11, 14. 11, 14. 12, 14. 13, 14. 14. 16. 17, 16. 18. 19. 11, 14. 11, 14. 11, 14. 11, 14. 11, 14. 12, 14. 14. 16. 17, 16. 18. 19. 11, 14. 11, 14. 11, 14. 12, 14. 14. 16. 17, 16. 18. 19. 11, 14. 11, 14. 11, 14. 12, 14. 13, 14. 14. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data cocilection monitor Data confirmations Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Deposition machine Deseition allowances Desalination plan Dessign patent protection Dessign patent protection Dessign patent protection Dessign patent protection Dessign and page makeup system Dessign and page makeup Dessign and page makeup Dessign and page makeup Dessign and page makeup Dessign and page mak	10, 139.6 4, 96 5, 1 4, 85.8 5, 1 4, 85.8 5, 1 4, 85.8 5, 7, 14, 127.7 5, 1, 127.7 5, 1, 127.7 5, 1, 127.7 11, 10, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data cocilection monitor Data confirmations Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decay mode Decision-making Deep-space studies Defect detection Defense budget Defect detection Defense budget Deficiencies in management Deficiencies in management Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Density profile Deposition machine Deposition machine Desasturation Design and page makeup system Desasturation description Design and page makeup system Desasturation description Design and page makeup system Disposition on and the systems Disposition	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 85. 1, 23, 85. 11, 127. 11, 127. 15, 15, 15, 15, 15, 15, 15, 15, 15, 15,
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making 3, 134 Deep-space studies Defect detection Defense budget Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Deposition machine Deposition machine Desaturation Design and page makeup system Design and page makeup system Desaturation Design and page makeup system Design patent protection Desident profice on the system Design patent protection Desident in munology slide Diamond-turned aspheric optics Diesectin constant detector Dietectric constant detector Dietectric materials 2, 1 Diesel-methanol powered buses Diesectin methanol powered buses Diesel methanol powered buses Dieselectric enficiency Diffusion coatings Diffusi	10, 139.6 4, 96 55, 11, 139.6 55, 11, 139.6 55, 13, 139.6 55, 13, 139.6 55, 13, 139.6 55, 13, 139.6 55, 139.6 56, 139.6 57, 14, 139.6 57, 14, 15, 15, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16

## Index to Volume 25 (1983) of IR&D Bold type refers to issue numbers in Vol. 25 of Industrial Research & Development. Light numerals indicate page

-A-	
Ablinity Ablative photodecomposition	3, 193 8, 68.
Abrasion-resistant rubber Absolute novelty	1, 37.
Absorbance defector Absorbed current	12, 29. 10, 76. 9, 155. 11, 37.
Absorption refrigeration cycle Academic participation in industrial	11, 37.
sector	6, 46.
Academic research 8, 52; Academic respectability	1, 50.
Acceleration forces 6, 156 Accelerator beams and protons	5; <b>8,</b> 99. <b>9,</b> 50.
Accident reduction Accident simulation	9, 72.
Accountability for performance Accretionary prism	9, 48.
Acid rain 1, 47: 5, 5	
Acoustic environment Acoustic "signature"	5, 115.
Acrylic automobile finishes	10, 135. 11, 54.
Action Analytical Instruments Advanced degree 3, 101:	11, 54. 10, 140. 5, 123.
Advanced Energy Inc. Advanced engine technology	11, 80.
Advanced laser atmospheric remoti sensor	
Advanced Limiter Test-I	7, 37. 10, 35.
Advanced-very-large-scale integrat (AVLSI)	3, 37,
"Aerocapture" Affinity chromatography Agricultural technology 4, 4	4, 49. 8, 78.
Air conditioners 8, 101;	4; 5, 62. 11, 37. 4, 139.
Air-moving capacity	11 79
Air transportation 11, 79, Aircraft engines 4, 51	80, 82. 11, 79.
Aircraft fires Airfoil cores	4, 36,
Airframe design	7, 94. 11, 82. 2, 66.
Airglow photometer All-sky survey Alloy formulation	9, 74.
Alloy semiconductors	7, 83. 1, 89.
Along-track scanning radiometer Alpine fault	5, 78.
Aluminum electromigration AlGaAs lasers	3, 147. 5, 66.
Aluminum-silicon interaction Ameteur radio operators	5, 66. 3, 141. 9, 69.
American women in space Americium refinement process	9, 64. 10, 132. 3, 11.
Amoral individuals Amorphous glass-like, iron-based a	
	7; 8, 47.
Amorphous silicon technology Anaerobili digestion Analog/digital converters 5, 112;	12, 63. 11, 42. 10, 100. ; 10, 76.
Analytical institution is 2, 123	; 10, 76.
Artaryzer cen	11, 125,
Anik C Animal metabolic functions	9, 64. 9, 70.
Anion absorption Anisotropy effects 3, 105	12, 66,
Anion absorption Anisotropy effects Antarctic research Antares laser  1, 42; 2, 78	11.60
Antibodies 8 Anti-cancer work	12 11
Anticipation anxiety	9, 97.
"Anti-noise" research	9, 42
Antinuclear group Antiprotons	10, 50. 9, 50. ; 4, 187. ; 10, 31:
Antisocial activities 3, 193 Antitrust laws 5, 136; 8, 48	; 4, 187. ; 10, 31;
1	6, 76.
Apolio program Applied Magnetics Laboratory Inc. Arbitration	10, 115.
Arc lamp Arc process for titanium diboride	10, 115. 10, 31. 10, 107. 10, 127.
Argon-fluoride excimer laser Argonne National Laboratory	8, 68.
Argonaut Ariane 6, 7	10, 50.
Armature excitation Arms control stability	2; 9, 64. 3, 115. 5, 11
Arms reduction	2, 244.
Articles for IR&D	
Artificial intelligence 1, 37: 4.	6, 60. 17, 116. 9; 9, 31.
Artistic works 4, 2 Asbestos-free friction products	7, 90.
Asbestos separator materials. Aseptic fluid transfer system	4, 70. 9, 58.
Ash cloud discriminator Aspheric testing	1, 62. 9, 112.
Assembly line 5, 2 Asteroid mining base	3; 7, 23. 6, 72.
Astronomical emissions Astronomical observations	11, 58. 9, 72.
Astronomical survey Asynchronous acquisition	4, 51. 5, 120.
Atlantis 1, 4	14; 6, 54.

austra Hassarut a Severapi	nort. Light harre
Atmospheric backscatter Atom probe field ion microscop Atom smasher Atomic absorption Atomic analysis	3, 88: 9, 49.
Atomic fluorescence spectrom	
Atomic layers Atomic nuclei	4, 56; 8, 108.
Atomic orbitals Atomic spacing	11, 132. 4, 62.
Atomic spectroscopy Atomic vapor laser isotope se	9, 53. 11, 132. 4, 62. 11, 132. paration
Atomization cell ATS-3 satellite	10, 63. 2, 3, 100. 5, 37.
Attitude control 1' Auger electron emission	1, 60; 12, 58.
Aurora borealis 2, 66	; 4, 41; 5, 85.
Australian science budget Australian space agency	2, 78.
Automation systems Automobile Automobile air conditioning	
Auxiliary air Avalanche photodiode	8, 105. 12, 35.
Avionics system	11, 82.
Babcock & Wilcox Co.	10, 112,
Backscattered light Backscattering spectrometry s	7, 37. specificity 9, 158.
Backward stimulated Raman : spectrometer Bacterial conetics	4, 80.
Bacterial genetics Bacterial strain Bacteriological warfare	11, 42. 10, 208.
Bacteriological warfare Balance of funding Balance of trade	9, 106.
Baldridge, Malcolm Bardeen, Dr. John	10, 47. 3, 44.
Barnard 5	9, 86. 9, 74. 3, 122.
Barrier elimination Battelle's Marine Research Le Battelle Memorial Institute	ab 5, 103.
Battery 1, 37 Battery-powered cars	; 4, 70; 9, 35. 9, 35.
Battery technology Bellows Beta-delayed, incomoton radi	5, 00. 5, 147.
Beta-relaxation process Biaxial shock testing machine	5, 52. 3, 105. 8, 98.
Biaxial woven fiber Biconic shape for spacecraft	9, 78.
Bifluoride ion Big Bang	11, 54. 7, 62. 2, 74.
Binary-cycle technique Bindings Bingham plastic flow	9, 40.
Bioanalytical Systems Inc. Biocatalysts	10, 87. 8, 77.
Biotechnology tools Bipolar transistors	5, 51. 3, 44.
Birth of a star Bismuth-rich oxide	8, 60. 4, 124. 4, 41.
Black Brant IX rocket Black-dot Braille letters Black hole 3, 92; 4, 95; 5, 204	
Bloch, Felix	
Boron nitrides	9, 76. 6, 113.
Bragg-Bentano parafocusing Braille writing	1, 87.
Brake block composition Breeder fuel	7, 89. 2, 39; 12, 46.
Breeder reactor British astronomers	2, 51.
Broadband mode Budget allocations Budget FY84	11, 126. 4, 50. 4, 76; 11, 54. 11, 54.
Budget FY 85 Buffer layer	4, 76; 11, 54. 11, 54. 4, 62; 9, 148. 10, 124.
Bureau of Mines Bureaucratic restrictions	4, 62; 9, 148. 10, 124. 6, 46; 9, 62.
Buried-gate design Burn-through resistance	4, 36.
Burning temperatures Burnup goal Burst potential	12, 64. 12, 45. 7, 90.
Business analysis Business flowchart	5, 138. 10, 45.
Business plan Business projections	1, 33; 12, 23.
Buyer Profile Buying power	12, 52. 3, 92.
-c-	
CAD/CAM system Cable isolators	1, 80; 7, 46. 5, 130. 2, 103.
Cable isolators Calibration drift California spirit	
Callisto	4, 23; 7, 124. 2, 53.

als indicate page numbers	
Cambridge Ring Capacitance manometers 11 Capacitive key Capital expenses 1, 69; Capitalism Carbon fiber band Carbon fiber carbon connectivities	4, 74. 0, 162. 8, 108. 9, 107. 9, 208. 9, 76. 11, 94. 9, 98.
"Carbonate dip" Catalytic reactors Catalytic surface Cation exchange membrane Cation exchange separations Ceramic ferrite magnets Ceramic injection molding Ceramic surge arresters	6, 62. 4, 23. 9, 96. 2, 153. 3, 115. 7, 77. 4, 122.
Ceramics 2, 142; 4, 44 Cerenicov radiation Cesium atoms vibration Challenger 1, 43; 4, 49; 6, 50 Charge generation (ion) gages 11 Chemical decontamination system 1	; 7, 76. 3, 85. 9, 60. ; 9, 64. 0, 164. 12, 64. 0, 131. 4, 70.
Chemical matrix effects 2, 100; Chemical shift 10, 3; Chemical suppression 2, 151 Chemical vapor deposition system Chinese engineers	9, 62. 1, 124. 5, 141. 11, 92. 11, 90. ; 9, 99. 9, 150. 3, 43.
Chromatic aberration Chromatic color 1 Chromatography-automation system Chrome-on-glass lens Chromospheric density Civil Service promotion Clean room 2, 185; 7, 3, 95; 1 Cleaved coupled-cavity laser 9, 82:	5, 92,
Cloring systems Clutch facing material CMOS supercomputer CMOS/SOS Coal iliquefaction process 1 Coal mines	8, 78. 7, 90. 9, 58. 5, 92. 0, 131. 6, 40.
Coal samples Coal seam fracture zones Coal testing technology Coating machine 1 Cobalt-enhanced magnetic particle Coherent Anti-Stokes Raman Scatte 6, 62; Cohesive energy	12, 64. 6, 40. 9, 39. 1, 141. 8, 35. ering 11, 51. 4, 60.
Colliding Beam Accelerator 9, 49; Collision-induced dissociation 1 Color graphics 1, Color-negative photographic system	4, 60. 48, 58. 11, 64. 11, 52. 1, 127. 3, 105. 0, 108. 1, 106.
Combustion prechamber inserts Combustion synthesis Comets 7, 50: 9, 206:	9, 96. 11, 50. 4, 105. 2, 131. 7, 77. 4, 89. 11, 60.
Commercial aircraft telephone Commercial investment Commercial rockety business Commercial rockety business Commercial space ventures Commercial teletext broadcasting Communication control Communications disturbances	4, 35. 7, 70. 10, 58. 7, 48. 9, 64. 9, 40. 5, 199. 2, 66.
Communications network 2, 137; Communications satellites 1, 43, 64;	5, 112 10, 68
Compact magnets Company funding of R&D Competitive business 6, 46; 9, 9	3; 3, 37; 11, 50, 2, 166, 7, 33, 1, 71, 91, 203, 10, 60, 79, 82
Composite materials 6, 99; 11, Computsory licensing Computational chemistry Computer-generated colors Computer-generated colors Computer generated holographic le Computer graphics 92; 8, 39; 1, 14; Computer simulation 4, 128; Computer software technology 7, 72; Computerized bindings Computerized production Computerized shopping service Conduction devices 4,	79, 82 4, 29 1, 78 8, 3 nses 9, 111
Computer graphics 9, 114; Computer R&D 5, 92; 8, 39; 9, 54; Computer simulation 4, 128; Computer software technology	12, 40, 10, 35, 8, 104, 5, 97
Confidentiality agreements 7, Conformity Connectivity file	5, 204 1, 76
Conquest of disease Conscientious refusel Consensus management Constricted double-heterojunction I optical-cavity diodes	9, 17 5, 199 11, 25 arge- 5, 66

Consumer-rights groups	5, 136.
Consumer-rights groups Contaminated water Continuous culture techniques	5, 136. 7, 60. 8, 78.
Continuous-wave electron accelera	E 07
Contrast ratio	7, 37. 11, 107.
Contrast ratio	2, 109.
Controlled commodities Controlled-grain boundary	2, 144.
Controlled-pore ceramics	
Cooperative research programs 10,	12, 78.
Copolymer research	1, 48. 11, 73.
Copying machines	5, 23.
Copyright law4, 29; 7, 27, 47; 9, 31;	10, 66;
Copyright protection Coran, Aubert	9, 31.
Coran, Aubert Corporate culture	10, 25.
Corporate executives	10, 45,
Corporate money Corporate patent attorney	9, 93. 5, 138.
Corrosion 7, 82	8, 111.
Cosmic processes Cosmic rays	8, 163. 3, 85.
Cosmic x-ray sources Cost reduction 3, 122	12, 58.
Crab nebula	4, 99.
Creative coportunity	9, 106. 03, 204.
Crewe, Dr. Albert	3, 51.
	3, 193. 9, 76.
Crimp Critical technology	8, 54. 8, 100.
Cross-flow nebulizer	2, 101.
	4, 42.
Cruise efficiency	11, 82. 11, 84.
Cruise efficiency Crustal movements Cryogenic pumps	10, 61. 4, 142.
Cryogenic pumps Cryogenic refrigeration 8, 56	11.56
Cryogenic refrigeration 8, 56 Cryotron Crystal growth processes	3, 58. 9, 149.
Crystallography 6, 71 Cultural changes	, 09 100.
Cultural changes Cultured-cell models	9, 91. 12, 11.
	2, 52,
Current densities Curve fitting 9, 115	10, 35. ; 11, 99.
Cutting tool insert	12, 33.
Cyclotron resonance Cygnus X-1	11, 125. 12, 58.
_	,
—D—	
DC magnetron controller/power so	urces 10 130
Dark gray tule	10, 139. 4, 96.
	10, 139. 4, 96. ssor
Dark gray t. sle Data acquisition and control proce Data-collection monitor	10, 139. 4, 96. ssor 5, 114. 8, 85.
Dark gray tle Data acquisition and control proce Data-collection monitor Data communications	10, 139. 4, 96. ssor 5, 114. 8, 85. k. 23, 88.
Dark gray t. Jie Data acquisition and control proce Data-collection monitor Data communications 6 Data management 3, Data transmission loss	10, 139. 4, 96. ssor 5, 114. 8, 85. 1, 23, 88. 3; 7, 95.
Dark gray t sie Data acquisition and control proce Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processee	10, 139. 4, 96. ssor 5, 114. 8, 85. 4, 23, 88. 3; 7, 95. 4, 50.
Dark gray t sie Data acquisition and control proce Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processee	10, 139. 4, 96. ssor 5, 114. 8, 85. 1, 23, 88. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52.
Dark gray f. Je Data acquisition and control proce Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-on fragments De-arsenation processes Decay mode Decision-making 3, 134 Deep-space studies 3, 134	10, 139. 4, 96. 8sor 5, 114. 8, 85. 4, 23, 88. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 5, 52.
Dark gray t sie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection	10, 139. 4, 96. ssor 5, 114. 8, 85. 4, 23, 88. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 3; 5, 199. 5, 82. 6, 58.
Dark gray t sie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research	10, 139. 4, 96. 8507 5, 114. 8, 85. 3, 23, 88. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 3; 5, 199. 5, 82. 6, 58. 11, 10, 58.
Dark gray f. Jie Data acquisition and control proce Data-confunications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Decision-making Decep-space studies Defect detection Defense budget Defines nesearch Deficiencies in management	10, 139. 4, 96. 8507 5, 114. 8, 85. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 3; 5, 199. 5, 82. 6, 58. 5, 11. 10, 58.
Dark gray t Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Deficiencies in management	10, 139. 4, 96. 550r 5, 114. 8, 85. 5, 23, 88. 3; 7, 95. 4, 50. 11, 127. 5, 52. 5; 5, 199. 6, 51. 10, 58. 9, 42. 3, 71.
Dark gray t Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Deficiencies in management	10, 139. 4, 96. 55, 145. 8, 85. 3; 7, 95. 4, 50. 11, 127. 3, 77. 5, 52. 6, 58. 5, 11. 10, 58. 5, 11. 11, 122. 3, 114. 11, 112. 39; 4, 98.
Dark gray t .9le Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Definse research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Deposition machine Deposition machine Deposition malonine	10, 139. 4, 96. ssor 5, 114. 8, 85. 1, 23, 88. 3; 7, 95. 11, 127. 5, 52. 8, 58. 5, 11. 10, 58. 9, 42. 3, 114. 11, 112. 11, 114. 11, 141. 5, 134.
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Deficiencies in management Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Density profile Deposition machine Depreciation allowances Desalination plant Desaturation	10, 139. 4, 96. 8, 85. 1 145. 1, 23, 88. 3; 7, 95. 11, 127. 5, 52. 3; 5, 199. 3, 74. 11, 127. 5, 58. 5, 11. 10, 58. 99; 4, 98. 11, 141. 5, 134.
Dark gray t .ile Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Defense research Demanagement Desposition machine Deposition machine Deposition machine Dessalination plant Desaturation plant Desaturation and page makeup system	10, 139. 4, 96. 5, 114. 8, 85. 13, 77, 95. 11, 127. 3, 77. 5, 52. 10, 58. 5, 11. 10, 58. 11, 112. 11, 112. 11, 114. 11, 114. 11, 116. 11, 141. 11, 175. 11, 107.
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Deficiencies in management Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Dendriftic structure Dendriftic structure Density profile Deposition machine Despreciation allowances Desalination plant Design and page makeup system Design and page makeup system	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 88. 3; 7, 95. 11, 127. 5, 52. 5, 82. 6, 11. 10, 58. 5, 11. 10, 58. 5, 11. 11, 12. 11, 14. 11, 14. 11, 14. 11, 14. 11, 14. 11, 19. 19. 19. 19. 19. 19. 19. 19.
Dark gray t .9le Data acquisition and control proce Data-collection monitor Data confinence Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Density profile Deposition machine Deposition machine Desposition machine Desposition plant Desaturation Design and page makeup system Design patter protection Desik-top computer 2, 1 Development inhibitor releaser	10, 139. 4, 96. 5, 114. 8, 85. 1, 23. 88. 3; 7, 95. 11, 127. 3, 77. 2, 77. 2, 3; 5, 199. 5, 5, 82. 3, 114. 11, 107. 10, 95. 11, 10, 95. 11, 10, 95. 178; 5, 98.
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defect detection Defense budget Defect clester in management Demagnetization curve Density profile Dendritie structure Density profile Deposition machine Depreciation allowances Desalination plant Desaturation Design patent protection Desik-top computer 2, 1 Development inhibitor releaser technology	10, 139. 4, 96. 98. 99. 14. 8, 85. 1, 23. 88. 3: 7, 95. 4 1, 127. 3, 77. 2, 5, 52. 8, 5, 82. 3, 114. 11, 10, 58. 9, 42. 3, 114. 11, 10, 95. 11, 10, 95. 72. 10, 95. 98. 4, 36. 7, 124.
Dark gray t Jie Data acquisition and control proce Data-collection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demorphic shructure Demorphic shructure Demorphic shructure Demorphic shructure Desposition machine Deposition machine Desposition machine Desposition plant Desalination plant Design patent protection Desik-lop computer Desk-lop computer Development inhibitor releaser technology Diagnostic immunology slide Diamond	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 85. 1, 23, 85. 1, 27. 5, 52. 11, 127. 5, 52. 13, 77. 5, 52. 11, 14. 11, 14. 11, 14. 11, 14. 11, 17. 11, 17. 12, 18. 13, 18. 14. 15. 16. 17. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19
Dark gray t .ile Data acquisition and control proce Data-collection monitor Data confinence Data confinence Data confinence Data confinence Data confinence Data management Sata transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Dendritic structure Deposition machine Despreciation allowances Desallmation plant Design patent protection Desik-top computer Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond-turned aspheric optics Delectric constant deleteor	10, 139. 4, 96. 5, 11 4. 8, 23, 88. 3, 7, 195. 11, 127. 12, 127. 11, 127. 11, 127. 11, 10, 58. 11, 17. 11, 10, 98. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 11, 107. 124. 13, 124. 14, 124. 17, 124. 18, 113. 18, 114. 19, 114. 19, 114. 10, 114. 11, 117. 11, 117. 11, 117. 11, 117. 11, 117. 12, 117. 13, 117. 14, 117. 15, 117. 16, 117. 17,
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data coculection monitor Data management Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Density profile Deposition machine Deposition machine Desposition machine Desposition machine Desaturation Design and page makeup system Design patent protection Desk-top computer 2, 1 Development inhibitor releaser technology Diagnostic immunology slide Diamond-turned aspheric optics Dielectric constant defector Delectric constant defector	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 85. 1, 23, 85. 1, 27. 1, 55. 11, 127. 5, 55. 5, 19. 10, 58. 11, 107. 10, 58. 11, 107. 10, 95. 11, 107. 11, 107. 10, 95. 11, 107. 10, 95. 10, 104. 10, 104.
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making 3, 134 Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Density profile Deposition machine Deposition machine Desposition machine Desposition machine Desaturation Design and page makeup system Design patent protection Desik-top computer 2, 1' Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond-turned aspheric optics Dielectric constant defector Dielectric constant defector Dielectric materials 2, 1- Diesel-methanol powered buses	10, 139. 4, 96. 55. 114. 8, 85. 123. 88. 3; 7, 95. 14, 527. 3, 77. 10, 95. 4, 96. 11, 122. 9; 4, 98. 11, 141. 13, 72. 11, 107. 10, 95. 9, 91. 11, 107. 10, 95. 9, 91. 13, 6, 105. 42; 6, 97. 124. 9, 148. 9, 155. 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,
Dark gray t. Jie Data acquisition and control proce Data acquisition and control proce Data codection monitor Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Deposition machine Design and page makeup system Design patient protection Desk-top computer Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond turned aspheric optics Defectric materials Deserved on the provened buses Diesel-methanol powered buses Diesel-methanol powered buses	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 85. 1, 23, 85. 1, 1, 27. 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5
Dark gray t. Jie Data acquisition and control proce Data acquisition and control proce Data codection monitor Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Deposition machine Design and page makeup system Design patient protection Desk-top computer Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond turned aspheric optics Defectric materials Deserved on the provened buses Diesel-methanol powered buses Diesel-methanol powered buses	10, 139. 4, 96. 5, 11 4. 8, 85. 1, 23, 85. 1, 27, 75. 11, 127. 5, 15, 15, 15, 15, 15, 15, 15, 15, 15, 1
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data cocilection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Density profile Depreciation allowances Desalination plan Design and page makeup system Desaluration and descort Desaluration Design and page makeup system Desaluration and descort Desaluration and desaluration and descort Desalur	10, 139.6 4, 96.6 55, 11 4.8 23, 885.8 327, 85.0 11, 1277.7 55, 195.0 11, 1277.7 55, 195.0 11, 1277.7 11, 198.0 11, 198.0
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making 3, 134 Deep-space studies Defect detection Defense budget Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Dendriftic structure Density profile Deposition machine Design and page makeup system Desaluration Design and page makeup system Desaluration Design and page makeup system Design patent protection Desik-top computer 2, 1' Desel-computer 2, 1' Desel-computer Development inhibitor releaser technology Diagnostic immunology slide Diamond Diamond-turned aspheric optics Dielectric constant defector Dielectric materials 2, 1 Diesel-methanol powered buses Diesel power station Diethylarsine Differential Absorption Lidar 7, 37 Differential Absorption Lidar 7, 37 Differential Absorption Lidar 7, 37 Differential pumping Diffusion coatings	10, 139. 4, 96. 55. 114. 8, 85. 123. 88. 3; 7, 95. 14, 527. 5, 529. 5, 511. 10, 55. 5, 111. 112. 112. 114. 11. 112. 114. 11. 112. 114. 11. 114. 11. 114. 11. 114. 11. 11
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management Jata transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Jeep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Dendriftic structure Density profile Deposition machine Deposition machine Desposition machine Design and page makeup system Design patent protection Desik-top computer 2, 1' Development inhibitor releaser technology Diagnostic immunology slide Diamond-turned aspheric optics Dielectric constant defector Dielectric materials 2, 1- Diesel-methanol powered buses Diesel power station Diethylarsine Differential Dumpring Diffusion coefficients Diffusion coefficients Diffusion coefficients Diffusion coefficients	10, 139. 4, 96. 55. 114. 8, 85. 1, 23, 88. 3; 7, 95. 11, 127. 3, 77. 10, 95. 11, 112. 9, 11, 104. 3, 72. 11, 107. 10, 95. 9, 113. 6, 105. 4, 86. 54. 5, 51. 3, 198. 5, 51. 3, 198. 5, 51. 3, 198. 5, 51. 10, 126. 6, 57. 124. 40, 12, 75. 12, 40. 2, 81. 11, 199. 12, 75. 12, 40. 2, 81. 11, 199. 12, 75. 12, 40. 2, 81. 11, 199. 12, 75. 12, 40. 12, 81. 11, 199. 12, 75. 12, 40. 12, 81. 11, 99. 11. 128.
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data codection monitor Data communications Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Design and page makeup system Desaltration Design and page makeup system Design patient protection Design and page makeup system Design patient protection Design and page makeup system Design patient protection Design and page makeup system De	10, 139. 4, 96. 5, 1 4. 8, 23, 88. 8, 3; 7, 4, 52. 11, 127. 5, 1, 127. 5, 1, 127. 5, 1, 127. 11, 128. 11, 134. 11, 198. 11, 134. 11, 107. 13, 134. 14, 14, 14, 14, 14, 14, 14, 14, 14, 14,
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data codection monitor Data confirmations Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendrities structure Density profile Deposition machine Design and page makeup system Desaltration Desaltrat	10, 139.6 4, 96 5, 1 4, 85.8 5, 1 4, 85.8 5, 1 4, 85.8 5, 1 4, 127.7 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making Deep-space studies Defect detection Defense budget Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendriftic structure Dendriftic structure Density profile Deposition machine Deposition machine Design and page makeup system Desaturation Design and page makeup system Desaturation Design and page makeup system Design patent protection Desik-top computer 2, 1' Development inhibitor releaser technology Diagnostic immunology slide Diamond Distruction desire desire Diedectric constant defector Dielectric constant defector Dielectric materials 2, 1- Diesel-methanol powered buses Dieselpower station Diethylarsine Differential Absorption Lidar 7, 37 Differential pumping Diffusion coefficients	10, 139. 4, 96. 55. 11. 127. 5, 56. 82. 6, 54. 11. 112. 11. 114. 11. 112. 11. 114. 11. 112. 11. 11. 114. 11. 114. 11. 112. 11. 11. 11. 11. 11. 11. 11. 1
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data confinence Data confinence Data confinence Data confinence Data confinence Data confinence Data management Salaghter-ion fragments Decargemation processes Decay mode Decision-making Dendritic structure Desposition machine Deposition machine Desposition machine Desposition machine Desposition machine Desposition machine Desposition plant Desposition Desp	10, 139. 4, 96. 55. 114. 8, 85. 1, 23, 88. 3; 7, 95. 11, 127. 3, 75. 25. 5, 199. 4, 96. 11, 127. 5, 56. 58. 11, 112. 11, 107. 10, 95. 9, 11. 12, 11, 107. 10, 95. 9, 11. 12, 11, 107. 10, 95. 11, 10, 105. 11, 105. 105. 11, 105. 105. 11, 105. 105. 11, 105. 5, 66. 2, 101. 11, 128. 7, 48. 10, 115. 5, 66. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 2, 101. 11, 127. 76. 26. 27. 101. 11, 127. 77. 78. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data confinence Data confinence Data confinence Data confinence Data confinence Data confinence Data management Salaghter-ion fragments Decargemation processes Decay mode Decision-making Dendritic structure Desposition machine Deposition machine Desposition machine Desposition machine Desposition machine Desposition machine Desposition plant Desposition Desp	10, 139. 4, 96. 5, 1 4. 8, 23, 88. 3, 7, 4, 52. 11, 127. 5, 1, 10. 11, 14. 11, 14. 12, 14. 13, 14. 14. 16. 17, 16. 18. 19. 11, 14. 11, 14. 11, 14. 11, 14. 11, 14. 12, 14. 14. 16. 17, 16. 18. 19. 11, 14. 11, 14. 11, 14. 12, 14. 14. 16. 17, 16. 18. 19. 11, 14. 11, 14. 11, 14. 12, 14. 13, 14. 14. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data cocilection monitor Data confirmations Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decay mode Decision-making Deep-space studies Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Deposition machine Deseition allowances Desalination plan Dessign patent protection Dessign patent protection Dessign patent protection Dessign patent protection Dessign and page makeup system Dessign and page makeup Dessign and page makeup Dessign and page makeup Dessign and page makeup Dessign and page mak	10, 139.6 4, 96 5, 1 4, 85.8 5, 1 4, 85.8 5, 1 4, 85.8 5, 7, 14, 127.7 5, 1, 127.7 5, 1, 127.7 5, 1, 127.7 11, 10, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14
Dark gray f. Jie Data acquisition and control proce Data acquisition and control proce Data cocilection monitor Data confirmations Data management Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decay mode Decision-making Deep-space studies Defect detection Defense budget Defect detection Defense budget Deficiencies in management Deficiencies in management Deficiencies in management Demagnetization curve Dendritic structure Dendritic structure Density profile Deposition machine Deposition machine Desasturation Design and page makeup system Desasturation description Design and page makeup system Desasturation description Design and page makeup system Disposition on and the systems Disposition	10, 139. 4, 96. 5, 114. 8, 85. 1, 23, 85. 1, 23, 85. 11, 127. 11, 127. 15, 15, 15, 15, 15, 15, 15, 15, 15, 15,
Dark gray f. Jie Data acquisition and control proce Data-collection monitor Data-collection monitor Data communications Data management 3, Data transmission loss Daughter-ion fragments De-arsenation processes Decay mode Decision-making 3, 134 Deep-space studies Defect detection Defense budget Defect detection Defense budget Defense research Deficiencies in management Demagnetization curve Dendritic structure Density profile Deposition machine Deposition machine Deposition machine Desaturation Design and page makeup system Design and page makeup system Desaturation Design and page makeup system Design patent protection Desident profice on the system Design patent protection Desident in munology slide Diamond-turned aspheric optics Diesectin constant detector Dietectric constant detector Dietectric materials 2, 1 Diesel-methanol powered buses Diesectin methanol powered buses Diesel methanol powered buses Dieselectric enficiency Diffusion coatings Diffusi	10, 139.6 4, 96 55, 11, 139.6 55, 11, 139.6 55, 13, 139.6 55, 13, 139.6 55, 13, 139.6 55, 13, 139.6 55, 139.6 56, 139.6 57, 14, 139.6 57, 14, 15, 15, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16

1 Dian			
	Error manifesian and correction 5 100: 1		Marianatal annotation and TA
Distributed-function computer systems 6, 88.	Error monitoring and correction 5, 120;	-6-	Horizontal acceleration 11, 74. Hot cathode ionization gages 10, 167.
Distributed processing 9, 117.	ERS-1 satellite 9, 54. 5, 78.	Galactic Interactions 9, 74.	Hot cathode ionization gages 10, 167. Hot flow path 7, 76.
DNA sequencers and synthesizers 9, 35.	Essay contest 12, 56.	Galileo project 3, 64. Gamma-ray imaging camera 5, 82. Ganymede 2, 53.	Hot inostatic pressing 11, 73, 1
Donnan exclusion 9, 96.	Etching technique 8, 115; 9, 84, 150.	Gamma-ray imaging camera 5, 82.	Hue 11, 106.
Donnelly Mirrors Inc. 10, 92. Doping 9, 81, 150.	Ethanol determination via immobilized enzyme 10, 135.	Garrymede 2, 53. Gas-nhase desulfurization process 10, 128.	Hughes Aircraft Co. 10, 123. Human color perception 11, 105.
Doppler radar 5, 58.	Ethical implications of research 2, 96.	Gas sipeline embargo 7, 45.	Human color perception 11, 105. Human factors engineering 5, 118.
Double-beam, double-monochromator	Euroca Vehicle 6, 72.	Gas-turbine engines 7, 76: 11, 84.	Hybrid Test Vehicle 9, 35.
spectrophotometer 5, 140.	European laboratories 3, 86; 9, 62, 1	Gene-cloning patent 5, 51.	Hydrogen bomb 4, 60,
Double-beta decay 7, 64. Double-exposure technique 1, 86.	European Orbital Test Satellite 4, 76. European technology 7, 68.	Gene-cloning patent 5, 51. Gene machines 6, 77. Gene slicing 2, 96.	Hydrogen cloud 4, 56. Hydrogen exchange reaction 7, 54.
Double quantum frequency 11, 95.	Eutectic transformation temperature	General Electric 10, 92, 99, 100, 104, 1	Hydrogen fusion process 4, 99.
Dow Chemical Co. 10, 91, 92, 128,	11, 112.	111, 112.	Hydrogen nuclei 11, 91.
Dow Corning Corp. 135, 136. 10, 127.	Event horizon 4, 95. Excimer lasers 11, 41.	Genetic engineering 2, 96; 8, 76. Genetic information 8, 77.	Hydrotreater 4, 35.
Dow Corning Corp. 10, 127. Drug-delivery pump 10, 91.	Excitation pulse 11, 126.	Genetic information 8, 77. Genetically engineered	Hyperbolic velocity 9, 206. Hypersonic aircraft 11, 68.
Dynamic mechanical analysis 3, 104.	Excited atoms 8, 3.	microomanieme 5.51	Tryperaonic arcrain
Dynamic random access memory chip	Exec-engineer gap 10, 45. Exhaust-gas pollution 8, 54.	Geniuses 9, 93.	
11, 56. Dynamic response 6, 62.	Exhaust-gas pollution 8, 54. Exobiology 4, 17.	Geniuses 9, 93. Geographical frontiers 9, 93. Geologic disposal of wastes 7, 60. Geomagnetic storms 5, 85.	
Dynamic response 6, 62. Dynamic travel 5, 128.	Exosat 12.58.	Geomagnetic storms 5, 85.	IR radiation thermometer 5, 80.
Dynamometer 9, 40.	Exothermic process 4, 3, 88.	Geothermal energy 2, 74; 3, 37. Germanium-76 decay 3, 92.	Ice detection 2, 53.
_	Expendable rockets 7, 48.	Germanium-76 decay 3, 92.	IR radiation thermometer 5, 80. lce detection 2, 53. lcy satellites 2, 52.
-t-	Experimental design capabilities 7, 94. Export control laws 2, 88; 6, 47; 7, 45;	Gifford Instruments Inc. 10, 88. Giotto spacecraft 8, 40.	Illegal technology diversion 7, 45, 46. Illiteracy 9, 92.
EBR 1 and EBR II 12, 45.		Glaciation 11, 17.	Image-converter streak carnera 9, 39.
E-T effect 4, 17.	Export growth (Israeli) 2, 80.	Glass-fiber technology 2, 81; 6, 98; 9, 78.	Image coupler 4, 36.
ECL-Carnac trigger processing system		Glassy carbons 12, 66.	Image current 11, 125.
Earth 6, 17, 50, 155; 7, 60; 9, 69.	External vibration 5, 130. Extra-column dispersion 4, 112.	Global ocean effects 5, 78. Global temperature 8, 62.	Imaging of surface topography 5, 74. Immobilized enzyme column
Earth's atmosphere 2, 66; 7, 37.	Extraterrestrial intelligence 1, 68.	Glomar Challenger 2, 64; 8, 62.	reactor 4, 105.
Earth-orbiting vehicles 6, 72; 7, 59.	Exxon Research & Engineering Co.	Gold foil 3, 43; 6, 155.	Immobilized enzymes 8, 78.
Earth's surface 3, 43.	"Eyeball" decisions 15, 132. 7, 95.	Gould Inc. 10, 104, 107.	Impatt diodes 5, 3.
Earthquakes 5, 201; 7, 56; 11, 74. Earthquake prediction 10, 61.	"Eyeball" decisions 7, 95.	Grain boundaries 2, 142. Grain embargo 7, 45. Grain refining 11, 112.	Incinerators 11, 50. Indiana University 10, 79.
East-West trade 6, 47; 7, 45.	—F—	Grain refining 11, 112.	Industrial environment 11, 95.
Eastern-bloc nations 7, 45,	Ear atracticate	Graphite composites 4, 65; 9, 76; 11, 82, 1	industrial extension services 10, 56.
Eastman Kodak Co. 10, 108. Eclipses 4, 70; 6, 72.	Far stray light 5, 140. Fast Flux Test Facility 12, 45.	36; 12, 50. Graphite fibers 3, 104; 7, 89; 9, 76.	Industrial funding 9, 105. Industrial inspection 6, 58.
Economic forecasting 8, 23.	Fast pumpdown 11, 142.	Graphite mirror 12, 50,	Industrial policy 11, 11, 50.
Economic indicators 9, 90.	Fast reactors 11, 41.	Graphite stack 12, 46.	Industrial pollutants 8, 48.
Economic left 10, 17.	rast-rotating pulsar 11, 64.	Gravitational cohesion 8, 162.	Industriai productivity 5, 53,
Economic policies 9, 90. Ecosystem stability 6, 74.	Fault model 2, 46. Federal copyright laws 7, 47.	Gravitational energy 6, 156; 11, 62. Gravitational field 4, 95; 6, 156.	Industrial R&D 3, 80; 6, 45; 10, 58. IR&D Scientist of the Year 3, 44, 51;
Eddy current testing instrument 10, 116.	Federal funding 12, 45.	Gravitational red shift 8, 162.	10, 143; 11, 90
Editorial content 12, 150, 1	Federal grant recipient 9, 107.	Gravitational suppression factor 4, 99,	Industrial revolution 9, 92.
Education 1, 39; 7, 47; 9, 91, 206, 208. Einstein x-ray satellite 3, 71.	Federal laboratories 9, 47. Federal research grants 4, 41.	Gravity-free environments 6, 71; 9, 69. Gravity gradient 9, 206.	Industrial safety 2, 82. Industry improvement 7, 122.
Einsteinium 4, 60.	Felony 3, 193.	Gray, Dr. John 5, 44.	Industry research contracts 5, 134; 8, 48;
Elastic strain 8, 65.	Fender, Dr. Brian 2, 88	Group transfer polymerization 11, 54.	7, 48.
Elastomeric isolators and bearings 2, 173;	Fermentation 4, 36; 8, 78; 12, 84.	Growth-from-melt technique 9, 149.	Industry/university interaction 5, 134; 6, 48.
El Chichon eruption 3, 17.	Fermi National Accelerator Laboratory 10, 96, 104, 120, 139.		Inertial confinement fusion 5, 37; 11, 37. Inertial upper stage (IUS) 6, 50.
Electric current sensor 10, 120.	Ferrite magnets 3, 115.	_H_	Infinity 3, 193.
Electric Power Research Institute 10, 131.	Ferromagnetic contact springs 6, 109.		Inflation 1, 69; 3, 97; 5, 123; 9, 25, 90.
Electrical failures 4, 122. Electrical insulator material 10, 92.	Fiber optics \$, 66. Fiber-optic cable 9, 39, 82.	Habitat programs 7, 56 Halley's comet 7, 124; 8, 40; 10, 45.	Information age 9, 40. Information storage 7, 86; 8, 58.
Electrical insulator material 10, 92. Electricity demand 3, 37.	Fiber-optic cable 9, 39, 82. Fiber-optic camera 10, 106.	Halley's comet 7, 124; 8, 40; 10, 45. Handicapped persons 6, 65.	Information storage 7, 66; 8, 58. IR catalog of the sky 11, 56.
Electrochemical detection 2, 153; 9, 96;	Fiber-optic-gyroscope 4, 72.	Hannay, Dr. N. Bruce 5, 53.	Infrared telescope 2, 51; 5, 92; 9, 72;
10, 84.	Field ion microscopy 10, 40.	Hannover Fair 7, 68.	11, 56.
Electrodeposition 2, 39. Electrofilter 6, 66.	Filter media 10, 111. Financial incentives 7, 47.	Harmonic motion 4, 58. Harrick Scientific Corp. 10, 84.	Infusaid Corp. 10, 91. Injection molding 7, 46, 76.
Electromagnetic force 3, 86.	Fire code 3, 123.	Hayward Fault 3, 17.	Injection volume 4, 105.
Electromagnetic interference 3, 68, 127;	Fire command center 2, 137.	Hazardous wastes 4, 82; 9, 70; 11, 49.	Inland Steel Research
9, 54.	Fire-fighting suits 6, 35.	Hearing aid 3, 44.	Laboratories 10, 184.
Electron accelerator 4, 44.	Fire management systems 2, 136. First Amendment rights 11, 204.	Heat emissions 11, 60.	Inner-shell atomic structure 11, 133.
Electron Dealit Intrography a, 50, 5, 111,			Innovation 9 31-3 36 113-4 188-E 198-
10, 128.	Fissile material content 12, 46.	Heat output meters 12, 78. Heating system efficiency 12, 3, 78.	Innovation 2, 31; 3, 25, 112; 4, 186; 5, 138; 6, 39; 9, 106; 10, 60.
Electron-beam lithography 2, 56; 9, 111; 10, 128. Electron energy 12, 39.	Fissile material content 12, 46. 512-kbit chip 11, 56.	Heating system efficiency 12, 3, 78. Heat-pipe sandwich panel 10, 123.	6, 39; 9, 106; 10, 60. Inorganic insulating foam 10, 112.
Electron energy 12, 39. Electron impact ionization 11, 124.	Fissile material content 12, 46. 512-kbit chip 11, 56. Flame atomic absorption 2, 100.	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50.	6, 39; 9, 106; 10, 60. Inorganic insulating foam 10, 112.
Electron energy 12, 39. Electron impact ionization 11, 124.	Fissile material content 12, 46. 512-kbit chip 11, 56. Flame atomic absorption 2, 100.	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 11. 86.	6, 39; 9, 106: 10, 60, inorganic insulating foam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, ??. Instant film 9, 35.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron spectroscopy for chemical	Fissile material content 12, 46. 512-kbit chip 11, 56. Flame atomic absorption 2, 100. Flame-retardant polymers 6, 97. Flow stresses Fluid-mechanics computer program 4, 130.	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 11, 86. Helicophere 5, 76.	Inorganic insulating foam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instart film 9, 35. Institutionalized mediocrity 9, 94.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electron spectroscopy for chemical analysis 9, 154.	Fissile material content 12, 46. 512-kbit chip 11, 56. Flame atomic absorption 2, 100. Flame-retardant polymers 6, 97. Flow stresses Fluid-mechanics computer program 4, 130.	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 11, 86. Heliosphere 5, 76. Helium-2 emission 5, 52.	6, 39; 9, 106; 10, 60. Inorganic insulating load 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 9, 35. Institutionalized mediocity 9, 94. Instrument purchasing 12, 52.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electron spectroscopy for chemical analysis 9, 154. Electronic ceramics 3, 142.	Fissile material content 12, 46. 512-kbit chip 11, 55. Flame atomic absorption 2, 100. Flame-retardart polymers 6, 97. Flow stresses 12, 74. Fluid-mechanics computer program 4, 130. Fluid resistance 1, 65. Fluid transferring 1, 55.	Heat-jpipe sandwich panel   10, 123.     Heavy ions   12, 50.     Helicola cable isolators   2, 174; 5, 129.     Helicopter design   5, 76.     Helium-2 emission   5, 52.     Helix support rods   6, 114.     Heteroceneous catalvist   8, 110.	6, 39; 9, 106; 10. 60. Incrganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 9, 35. Institutionalized medicirily 9, 94. Instrument purchasing 12, 52. Instrumentation Laboratory Inc. 18, 79, 88. Insulated caste rectifier 3, 43.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44: 3, 51. Electron spectroscopy for chemical analysis 9, 154. Electronic ceramics 3, 142. Electronic device testing 3, 127. Electronic mail network 2, 43: 6, 3.	Fissile material content 12, 46. 512-kbit rub, per 11, 55. Flame atomic absorption 11, 55. Flame atomic absorption 12, 102. Flame-retandart polymers 9, 97. Flow stresses 12, 74. Fluid-mechanics computer program 4, 130. Fluid resistance Fluid transferring 9, 58. Fluorometer/photometer analyzer 19, 88. Fluorometer/photometer analyzer 19, 88. Fluid transferring 19, 58.	Heat-joipe sandwich panel   10, 123, 124, 145, 129, 146, 127, 128, 128, 129, 129, 129, 129, 129, 129, 129, 129	6, 39; 9, 106; 10. 60. Incrganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 9, 35. Institutionalized medicirily 9, 94. Instrument purchasing 12, 52. Instrumentation Laboratory Inc. 18, 79, 88. Insulated caste rectifier 3, 43.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electron spectroecopy for chemical analysis 16, 154. Electronic ceramics 3, 142. Electronic device testing 3, 127. Electronic mail network 2, 43; 6, 3. "Electronic newapaper" 2, 43; 6, 3.	Fissile material content   12, 46,     Fissile material content   12, 46,     Filame atomic absorption   2, 100,     Filame-retardart polymers   6, 97.     Flow stresses   12, 74,     Fluid-mechanics computer program 4, 130,     Fluid resistance   4, 65,     Fluid transferring   5, 59,     Fluorometer/photometer analyzer   10, 88,     Flux density   8, 50,     Flood chain   8, 50,     Flood chain   8, 50,     Flux density   8, 5	Heat-jope sandwich panel 10, 123. Heavy ions 12, 50. Helicolat cable isolators 4, 174; 5, 129. Helicopter design Helicopter design 5, 76. Helium-2 emission 5, 52. Helis support rods 6, 114. Heterogeneous catalysis 10, 79, 95, 99. High-frequency, high-power	Inorganic insulating loam In-seam seismic technique Inseam film Institutionalized mediocrity Institutionalized I
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electronic petroscopy for chemical analysis 9, 154. Electronic ceramics 3, 142. Electronic evice testing 1, 142. Electronic mail network 2, 43; 6, 3. 'Electronic newspaper' 9, 40. 'Electronic pol 2, 72, 244; 4, 182, 187;	Fissile material content 12, 46. 512-kbit rho, plan plan plan plan plan plan plan plan	Heat-jope sandwich panel 10, 123. Heavy ions 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 5, 76. Helicum-2 emission 6, 114. Heterogeneous catalysts 14, 100. High-frequency, high-power canacitors 10, 103.	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instant film institutionalized mediocrity 9, 94. Instrument purchasing 12, 52. Instrumentsino Laboratory inc. 18, 79, 88. Insulated gate rectifier 3, 43. Insulated gate transistor 18, 35, 100. Integral rocket/ramjet (IRR) 11, 66. Integrating capacitor 18, 16, 67.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electron spectroecopy for chemical analysis 8, 154. Electronic ceramics 3, 142. Electronic device testing 3, 127. Electronic newspaper" 2, 43; 6, 3. Electronic newspaper" 9, 40. Electronic poll 2, 72, 244; 4, 182, 187; 5, 199.	Fissile material content  12, 46. 512-kbit rho, plan plan plan plan plan plan plan plan	Heat-jope sandwich panel 10, 123. Heavy ions 12, 50. Helicola cable isolators 2, 174; 5, 129. Helicopter design 5, 78. Helicopter 6, 78. Helicopter 10, 79. 95, 99. High-fraquency, high-power capacitors 10, 103. High frequency semiconductor 1, 103. High prefumance thermoplastics 6, 97.	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instant film institutionalized mediocrity 9, 94. Instrument purchassing 12, 52. Instrumentation Laboratory Inc. 18, 79, 81. Insulated gate recifier 3, 43. Insulated gate transistor 18, 35, 100. Integral rocket/rampiet (IRR) 11, 66. Integrating capacitor 10, 167. Integrating property rights 1, 31.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electron spectroscopy for chemical analysis 8, 154. Electronic device testing 3, 142. Electronic device testing 2, 43; 6, 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic pollution 3, 127. Electronic pollution 3, 127. Electronic publishing medium 7, 68.	Fissile material content   12, 46.     Fissile material content   12, 46.     Filame atomic absorption   1, 56.     Filame atomic absorption   2, 100.     Filame atomic absorption   2, 100.     Filame atomic at	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helicolat cable isolators 2, 174; 5, 129. Helicopter design 1, 86. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter os 6, 114. Heterogeneous catalysis 8, 110. Hewleft-Packard Co. 10, 79, 95, 99. High-frequency, high-power capacitors 10, 103. High-performance thermoplastics 6, 97. High-performance termoplastics 6, 97. High-performance x-ray searchments with the part of the first of the f	Inorganic insulating loam In-agains essential technique Insertion sequences Insatirut film Insertion sequences Institutionalized medicority Institutionalized medicority Institutionalized medicority Institutionalized medicority Institutionalized medicority Institutionalized medicority Insulated gate rectifier Insulated g
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electronic periode testing 9, 154. Electronic device testing 2, 127. Electronic mello restring 2, 43, 6, 3. "Electronic mello restring 2, 43, 6, 3. "Electronic newspaper" 9, 40. Electronic poll 2, 72, 244; 4, 182, 187; Electronic pollution 7, 68. Electronic publishing medium 7, 68. Electronic suppression 2, 151.	Fissile material content  12, 46. 512-kbit rho, plantic about the street of the street	Heat-jope sandwich panel 10, 123. Heavy ions 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 5, 76. Helicopter design 5, 76. Helium-2 emission 5, 52. Helium-2 emission 10, 79, 93, 99. High-Iraquency, high-power capacitors 2, 10, 103. High frequency semiconductor 9, 148. High-performance thermoplastics 9, 148. High-performance x-ray spectrometry tube	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instant film institutionalized mediocrity 9, 94. Instrument purchasing 12, 52. Instrumentation Laboratory inc. 18, 79, 81. Insulated gate recifier 3, 43. Insulated gate transistor 18, 95, 100. Integral rocket/ramjet (IRR) 11, 66. Integrating capacitor 10, 167. Integrating protocol software 6, 90. Intellectual property rights 11, 31. Intelest
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electrons epectroecopy for chemical analysis 9, 154. Electronic ceramics 3, 142. Electronic device testing 3, 127. Electronic main network 2, 43; 6, 3. "Electronic newspaper" 9, 40. Electronic poll 2, 72, 244; 4, 182, 187. Electronic pollution 7, 68. Electronic publishing medium 7, 68. Electronic transitions 11, 132. Electronic transitions 11, 132.	Fissile material content   12, 46.     Fissile material content   12, 46.     Filame atomic absorption   11, 56.     Filame atomic absorption   2, 100.     Filame-retardart polymers   6, 97.     Filow stresses   12, 74.     Filid-franchics computer program 4, 130.     Filid-franchics comp	Heat-jope sandwich panel 10, 123. Heavy ions 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 5, 76. Helicopter design 5, 76. Helium-2 emission 5, 52. Helium-2 emission 10, 79, 95, 99. High-Irequency, high-power capacitors 10, 103. High frequency semiconductor 9, 148. High-performance thermoplastics 9, 48. High-performance harmoplastics 7, 48. High-power absorption 7, 89. High-power absorption 8, 115.	Inorganic insulating loam In-agains essential technique Insertion sequences Insatirut film Insertion sequences Institutionalized medicority Institutionalized medicority Institutionalized medicority Institutionalized medicority Institutionalized medicority Institutionalized medicority Insulated gate rectifier Insulated g
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electrons epectroecopy for chemical analysis 9, 154. Electronic ceramics 3, 142. Electronic device testing 3, 127. Electronic main network 2, 43; 6, 3. "Electronic newspaper" 9, 40. Electronic poll 2, 72, 244; 4, 182, 187. Electronic pollution 7, 68. Electronic publishing medium 7, 68. Electronic transitions 11, 132. Electronic transitions 11, 132.	Fissile material content  512-klot to he beorption  Filame atomic absorption  Filame atomic atomic absorption  Filame atomic atomi	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design Helicopter design 5, 76. Helicopter design 5, 76. Helicopter of 6, 114. Heterogeneous catalysis 8, 114. Heterogeneous catalysis 10, 103. High-performance hemoplastics 6, 97. High-performance hemoplastics 6, 97. High-performance x-ray spectrometry turbular of 7, 89. High-pressure schim vapor light 10, 15. High-pressure schim panel right 15. High-pressure schim panel right 15. High-pressure schim vapor light 10, 15.	Inorganic insulating loam Inorganic insulating loam Ineartion sequences Insulating floam Insulating loam Insulating load Insulating load Insulated gate recifier Insulated gate recifier Insulated gate transistor Insulated gate recifier Insulated g
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electrons epectroecopy for chemical analysis 9, 154. Electronic ceramics 3, 142. Electronic device testing 3, 127. Electronic main network 2, 43; 6, 3. "Electronic newspaper" 9, 40. Electronic poll 2, 72, 244; 4, 182, 187. Electronic pollution 7, 68. Electronic publishing medium 7, 68. Electronic transitions 11, 132. Electronic transitions 11, 132.	Fissile material content  512-klot to he beorption  Filame atomic absorption  Filame atomic atomic absorption  Filame atomic atomi	Heat-jope sandwich panel 10, 123. Heavy ions 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 5, 76. Helicopter 6, 76. Helicopter 6, 76. Helicopter 7, 76. Helicopter 7, 76. High-predomance Hermiconductor 7, 103. High frequency semiconductor 9, 146. High-performance Hermicopterior 7, 166. High-pressure schring 16, 163. High-pressure schring 16, 163. High-pressure schring 16, 164. High-pressure wind turnel 11, 164.	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Institutionalized mediocrity 9, 94. Instrument purchassing 12, 52. Institutionalized mediocrity 12, 52. Institutionalized mediocrity 13, 43. Instrumentation Laboratory Inc. 16, 79, 84. Insulated gate transistor 18, 35, 100. Initegral rocket/rampiet (IRR) 11, 66. Integrating protocol software 10, 167. Integrating property rights 11, 31. Interface of the company of the c
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 9, 154. Electron reutrino 9, 154. Electronic ceramics 3, 142. Electronic ceramics 3, 142. Electronic mail network 2, 43; 6, 3. "Electronic newspaper 9, 40. Electronic newspaper 12, 72, 244; 4, 187. Electronic poll 2, 72, 244; 4, 187. Electronic pollution 12, 76, 68. Electronic publishing medium 7, 68. Electronic suppression 2, 151. Electronic transitions 11, 132. Electronic transitions 15, 52. Electronic publishing medium 7, 68. Electronic suppression 2, 151. Electronic Transitions 11, 132. Electronic Transitions 2, 7, 33. Emitter-coupled logic 2, 161. Employee performance 2, 247.	Fissile material content  12, 46. 512-kbit rho, plannic absorption  11, 55. Flame atomic absorption  11, 55. Flame atomic absorption  12, 74. 12, 74. 12, 74. 12, 74. 12, 74. 12, 74. 13, 75. 12, 74. 14, 75. 15, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 17, 75. 18, 75. 18, 75. 19, 75.	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helicolat cable isolators 2, 174; 5, 129. Helicopter design 1, 86. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter design 1, 8, 110. Hewleft-Packard Co. 10, 79, 95, 99. High-reasure, high-power capacitors 10, 103. High frequency high-power design 10, 103. High-performance thermoptastics 6, 97. High-performance x-ray spectrometry tube 1, 11, 11, 11, 11, 11, 11, 11, 11, 11,	Inorganic insulating loam 101, 112. In-seam seismic technique 6, 40. Insurantina sequences 8, 77. Instant film institutionalized medicority 9, 94. Instrument purchasing 12, 52. Instrumentation Laboratory inc. 18, 79, 89. Insulated gate recifier 3, 43. Insulated gate transistor 18, 35, 100. Integral rocket/ramjet (IRR) 11, 68. Integrating capacitor 18, 16, 167. Integrating protocol software intellectual properly rights 11, 31. Intertacial transistor 4, 70. Interaction of ocean and atmosphere 5, 80. Interfacial turbulence 4, 99. Interference pattern 9, 86. Interference pattern 9, 86. Interference pattern 9, 874, 118.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electron spectroecopy for chemical analysis 18. Electronic device testing 3, 142. Electronic device testing 3, 142. Electronic device testing 4, 182, 187. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 19. Electronic publishing medium 19. Electronic ransitions 19. Electronic ransitions 19. Electronic ransitions 19. Electronic ransitions 2, 151. Employee performance 2, 2, 247. Employee performance 2, 2, 247. Employeement recovery 7, 37, 72.	Fissile material content  12, 46. 512-kbit rho, plannic absorption  11, 55. Flame atomic absorption  11, 55. Flame atomic absorption  12, 74. 12, 74. 12, 74. 12, 74. 12, 74. 12, 74. 13, 75. 12, 74. 14, 75. 15, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 16, 75. 17, 75. 18, 75. 18, 75. 19, 75.	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helicolat cable isolators 2, 174; 5, 129. Helicopter design 1, 86. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter design 1, 8, 110. Hewleft-Packard Co. 10, 79, 95, 99. High-reasure, high-power capacitors 10, 103. High frequency high-power design 10, 103. High-performance thermoptastics 6, 97. High-performance x-ray spectrometry tube 1, 11, 11, 11, 11, 11, 11, 11, 11, 11,	Inorganic insulating foam 10, 112. In-seam seismic technique 8, 40. Insertion sequences 8, 77. Instant film insulation sequences 9, 94. Instrument purchasing 19, 94. Instrument purchasing 19, 95. Insulated gate rearrise 19, 19, 19, 10, Integrating protocol software inselectual property rights 1, 17, Internaction of cosan and atmosphere 5, 80. Interfacial turbulence 4, 99. Interfacial turbulence 4, 99. Interference pattern 9, 86. Interference pattern 9, 87, 41, 11, Intermediate vector boson 3, 86; 7, 64. Intermediate vector boson 3, 86; 7, 64. Intermediate vector boson 3, 86; 7, 68.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electron spectroecopy for chemical analysis 18. Electronic device testing 3, 142. Electronic device testing 3, 142. Electronic device testing 4, 182, 187. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 19. Electronic publishing medium 19. Electronic ransitions 19. Electronic ransitions 19. Electronic ransitions 19. Electronic ransitions 2, 151. Employee performance 2, 2, 247. Employee performance 2, 2, 247. Employeement recovery 7, 37, 72.	Fissile material content  12, 46.  512-kbit rho, pacption  11, 55.  Flame atomic absorption  11, 55.  Flame atomic absorption  12, 102.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  13, 715.  14, 704.  15, 704.  16, 704.  16, 704.  17, 704.  17, 704.  18, 704.  19, 704.  19, 704.  10, 704.	Heet-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 1, 86. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter design 1, 86. Helicopter design 1, 86. Helicopter design 1, 86. Helicopter design 1, 86. Helicopter design 1, 87. Helicopter design 1, 87. High-periormance thermoplastics 8, 17. High-periormance thermoplastics 8, 17. High-periormance thermoplastics 8, 87. High-periormance thermoplastics 8, 87. High-periormance thermoplastics 8, 87. High-periormance thermoplastics 8, 17. High-pressure suching 1, 88. High-ressure wind turnel 1, 88. High-rise buildings 1, 18. High-periormance 1, 18. High-speed columns 3, 132. High-speed columns 3, 132. High-speed digital bus 5, 113.	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Insartion sequences 8, 77. Instant film 10, 112. Instantionalized mediocrity 9, 94. Instrument purchassing 12, 52. Instrumentation Laboratory Inc. 18, 79, 89. Insulated gate rectifier 3, 43. Insulated gate transistor 18, 35, 100. Integrating capacitor 10, 167. Integrating property rights 11, 31. Interest 11, 31. Interest 11, 32. Interfacial turbulence 1, 9, 96. Interrection pattern 9, 7, 83. Internal cystalline architecture 1, 112. Internal cystalline architecture 1, 12. Internal cystalline architecture 1, 12.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 7, 62. Electron spectroecopy for chemical analysis 18. Electronic device testing 3, 142. Electronic device testing 3, 142. Electronic device testing 4, 182, 187. Electronic newspaper 8, 43; 6, 3, 127. Electronic newspaper 9, 40. Electronic pollution 19. Electronic pollution 19. Electronic publishing medium 19. Electronic publishing medium 19. Electronic publishing medium 19. Electronic transitions 19. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic problishing medium 3, 127. Electronic newspaper 7, 33. Electronic newspaper 7, 33. Electronic newspaper 7, 33. Electronic newspaper 7, 37, 72. Energetic ions 10, 64; 12, 50.	Fissile material content  12, 46.  512-kbit rho, peoprotion  11, 55.  Flame atomic absorption  11, 55.  Flame atomic absorption  12, 102.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  12, 704.  13, 715.  14, 705.  16, 706.  17, 706.  18, 706.  19, 706.  10, 706.  10, 707.  10, 706.  10, 707.  10, 706.  10, 707.  10, 706.  10, 707.  10, 706.  10, 707.  10, 706.  10, 707.  10, 706.  10, 707.  10, 706.  10, 707.  10, 706.  10, 707.  10, 707.  10, 707.  10, 707.  10, 707.  10, 707.  10, 707.  10, 707.  10, 707.  10, 707.  11, 707	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helicolat cable isolators 2, 174; 5, 129. Helicopter design Helicopter design Helicopter design 5, 76. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter design 10, 103. High-perdormance thermoplastics 6, 97. High-performance thermoplastics 6, 97. High-performance thermoplastics 6, 97. High-performance thermoplastics 7, 89. High-pressure sodium vapor light 1, 15. High-pressure sodium vapor light 1, 168. High-pressure wind turnel 11, 68. High-performance turnel 11, 68. High-performance turnel 11, 68. High-performance 1, 3, 132. High-speed columns 1, 13. High-speed digital bus 5, 113. High-speed digital bus 1, 114. High-speed digital bus 1, 115. High-speed dig	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instart film 10, 112. Inseam seismic technique 6, 40. Insartion sequences 8, 77. Instart film 10, 112. Institutionalized mediocrity 9, 94. Instrument purchassing 12, 52. Institutionalized mediocrity 19, 94. Instrument purchassing 12, 52. Institutionalized mediocrity 19, 94. Instrument purchassing 12, 52. Instrument purchassing 12, 52. Instrument purchassing 14, 33. Institution 10, 113. Interest 11, 133. Interest 11, 133. Interfacial turbulence 19, 96. Interrection pattern 9, 86. Interferometry 9, 86. Interrection pattern 19, 13. International computer network 5, 53. International computer network 5, 53. International computer network 5, 53. International political tensions 11, 92.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroscopy for chemical analysis 4. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic newspaper" 3, 127. Electronic pollution 2, 72, 244; 4, 182, 187. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transition 2, 151. Electronic transitions 1, 132. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 2, 247. Element decay 7, 33. Element couped logic 2, 161. Employee performance 2, 247. Energetic ions 10, 64; 12, 50. Energy consumption 3, 123; 12, 78. Energy consumption 3, 123; 12, 78. Energy consumption 3, 123; 12, 78. Energy consumption 12, 31.	Fissile material content  12, 46.  512-kibit rho  Flameretandari polymers  Flow stresses  Fluid-mechanics computer program 4, 130.  Fluid resistance  18, 58.  Fluid resistance  18, 72.  Ford Aerospace Corp.  Ford Motor Co.  10, 79, 112.  Foreign computer RAD  Foreign computer RAD  Foreign innovation  10, 79, 112.  Foreign nationals  Foreign nationals  Foreign nationals  Foreign present protection  17, 29.  Foreign resistance  19, 147.  Foreign all belowe  1, 37.  Found all belowe  1, 37.  Found franchom-mass spectrometry  Fracture machanisms  11, 82.	Heat-pipe sandwich panel 10, 123. Heary ions 12, 50. Helicola cable isolators 1, 12, 50. Helicolater design Helicopter design 1, 18, 18, 18, 18, 18, 18, 18, 18, 18,	Inorganic ingulating foam 10, 112. In-seam seismic technique 6, 40. Instantion sequences 8, 70. Instant film 10, 112. Instant film 10, 112. Instant film 10, 112. Instant film 11, 112. Instant film 11, 112. Instrument purchasing 12, 52. Instanticulation Laboratory Inc. 18, 79, 88. Insulated gate recriffer 3, 43. Insulated gate transistor 19, 35, 100. Integraling capacitor 19, 35, 100. Integraling protocol software 1, 11, 51. Internation of ocean and almosphere 8, 90. Interactive graphics 1, 31. Internative graphics 1, 32. Internation of ocean and almosphere 8, 90. Internative graphics 1, 33. Internation of ocean and almosphere 1, 39. Internation of ocean and almosphe
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron reutrino 2, 7, 62. Electronic oreamics 3, 142. Electronic device testing 3, 147. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution Electronic pollution Electronic pollution Electronic pollution Electronic transitions 11, 132. Electronic tra	Fissile material content  12, 46.  512-kibit rho  Flameretandari polymers  Flow stresses  Fluid-mechanics computer program 4, 130.  Fluid resistance  18, 58.  Fluid resistance  18, 72.  Ford Aerospace Corp.  Ford Motor Co.  10, 79, 112.  Foreign computer RAD  Foreign computer RAD  Foreign innovation  10, 79, 112.  Foreign nationals  Foreign nationals  Foreign nationals  Foreign present protection  17, 29.  Foreign resistance  19, 147.  Foreign all belowe  1, 37.  Found all belowe  1, 37.  Found franchom-mass spectrometry  Fracture machanisms  11, 82.	Heat-pipe sandwich panel 10, 123. Heary ions 12, 50. Helicola cable isolators 1, 12, 50. Helicolater design Helicopter design 1, 18, 18, 18, 18, 18, 18, 18, 18, 18,	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Inseam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Instantionalized mediocrity 9, 94. Instrument purchassing 12, 52. Instrumentation Laboratory Inc. 18, 79, 89. Insulated gate recrifier 3, 43. Insulated gate transistor 18, 35, 100. Integrating capacitor 10, 167. Integrating protocol software 11, 93. Interfaction of ocean and almosphere 5, 80. Interactive graphics 11, 33. Interfacial turbulence 4, 99. Interference pattern 9, 86. Intermediate vector boson 3, 86; 7, 83. International computer network 1, 92. International trade practions 5, 53, 7, 68. International trade practices 5, 53, 7, 68. International trade practices 5, 56, 68. International trade practices 5, 56, 68.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroscopy for chemical analysis 3, 142. Electronic device testing 3, 142. Electronic device testing 4, 142. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 2, 72, 244; 4, 182, 187. Electronic publishing medium 2, 151. Electronic transition 2, 151. Electronic transition 2, 151. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 2, 247. Element decay 1, 33. Electrostatic tandem accelerator 2, 247. Element of couper 1, 33. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 2, 247. Element of couper 1, 33. Electrostatic tandem accelerator 1, 34. Electronic pollution 3, 137. Electronic pollution 3, 137. Electronic pollution 2, 151. Electronic pollution 2, 151. Electronic pollution 3, 127. Electronic pollution 2, 151. Electronic pollution 2, 151. Electronic pollution 3, 127. Electronic pollution 2, 151. Electronic pollution 3, 127. Electronic pollution 2, 151. Electronic pollution 3, 127. Electronic pollution 2, 127. Electronic pollution 3, 127. El	Fissile material content  12, 46.  512-kbit rob, peopretion  11, 56.  Flame atomic absorption  11, 56.  Flame atomic absorption  12, 76.  12, 774.  12, 774.  12, 774.  13, 975.  14, 975.  15, 975.  16, 975.  17, 975.	Heat-pipe sandwich panel 10, 123. Heary ions 12, 50. Helicola cable isolators 12, 50. Helicolater design Helicopter design 1, 128. Helicopter design	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Inseam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Instantionalized mediocrity 9, 94. Instrument purchassing 12, 52. Instrumentation Laboratory Inc. 18, 79, 89. Insulated gate recrifier 3, 43. Insulated gate transistor 18, 35, 100. Integrating capacitor 10, 167. Integrating protocol software 11, 93. Interfaction of ocean and almosphere 5, 80. Interactive graphics 11, 33. Interfacial turbulence 4, 99. Interference pattern 9, 86. Intermediate vector boson 3, 86; 7, 83. International computer network 1, 92. International trade practions 5, 53, 7, 68. International trade practices 5, 53, 7, 68. International trade practices 5, 56, 68. International trade practices 5, 56, 68.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroecopy for chemical analysis 3, 142. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 2, 12, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transition 2, 151. Electronic transition 3, 127. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 2, 151. Element decay 7, 33. Element decay 7, 33. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 2, 247. Element occupied logic 2, 161. Employee performance 2, 247. Energy consumption 3, 37:12, 37. Energy consumption 3, 123: 12, 78. Energy costs 1, 23. Energy development 1, 132.	Fissile material content  12, 46.  512-kbit rhough of 11, 55.  Flame atomic absorption  11, 56.  Flame atomic absorption  12, 102.  12, 704.  12, 704.  12, 704.  12, 704.  13, 97.  12, 704.  13, 97.  14, 107.  15, 97.  16, 98.  16, 97.  16, 98.  16, 97.  16, 98.  17, 97.  18, 98.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  19, 704.  19, 704.  19, 704.  19, 704.  19, 704.  10, 706.  10, 709.  11, 126.  11, 126.  11, 127.  11, 126.  11, 127.  11, 126.  11, 127.  11, 126.  11, 126.  11, 127.  11, 126.  11, 126.  11, 126.  11, 127.  11, 126.  12, 126.  13, 126.  14, 126.  15, 126.  16, 126.  17, 126.  17, 126.  17, 126.  18, 126.  18, 126.  18, 126.  18, 126.  18, 1	Heat-pipe sandwich panel 10, 123. Heavy ions 12, 50. Helicolar debie siciators 2, 174; 5, 129. Helicopter design 1, 12, 50. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter 6, 17, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	Inorganic insulating foam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 70. Instant film insulation sequences 9, 94. Instrument purchasing 12, 52. Instantification Laboratory inc. 18, 79, 88. Insulated gate transition 1, 19, 19, 19, 19, 19, 19, 19, 19, 19,
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroecopy for chemical analysis 3, 142. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 2, 12, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transition 2, 151. Electronic transition 3, 127. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 2, 151. Element decay 7, 33. Element decay 7, 33. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 2, 247. Element occupied logic 2, 161. Employee performance 2, 247. Energy consumption 3, 37:12, 37. Energy consumption 3, 123: 12, 78. Energy costs 1, 23. Energy development 1, 132.	Fissile material content  12, 46.  512-kbit rhough of 11, 55.  Flame atomic absorption  11, 56.  Flame atomic absorption  12, 102.  12, 704.  12, 704.  12, 704.  12, 704.  13, 97.  12, 704.  13, 97.  14, 107.  15, 97.  16, 98.  16, 97.  16, 98.  16, 97.  16, 98.  17, 97.  18, 98.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  19, 704.  19, 704.  19, 704.  19, 704.  19, 704.  10, 706.  10, 709.  11, 126.  11, 126.  11, 127.  11, 126.  11, 127.  11, 126.  11, 127.  11, 126.  11, 126.  11, 127.  11, 126.  11, 126.  11, 126.  11, 127.  11, 126.  12, 126.  13, 126.  14, 126.  15, 126.  16, 126.  17, 126.  17, 126.  17, 126.  18, 126.  18, 126.  18, 126.  18, 126.  18, 1	Heat-pipe sandwich panel 10, 123. Heavy ions Heavy ions Heavy ions Heavy ions Heavy ions Helicopter design Helicopter de	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instart film 10, 112. Insertion sequences 8, 77. Instart film 10, 112. Insertion sequences 9, 94. Instrument purchassing 12, 52. Instrument purchassing 12, 52. Instrument purchassing 12, 52. Instrument purchassing 12, 52. Insulated gate racrifier 3, 43. Insulated gate transistor 16, 35, 100. Integrating capacitor 10, 167. Integrating capacitor 10, 167. Integrating properly rights 11, 31. Intelest 11, 33. Interfaction of ocean and almouphers 6, 90. Interactive graphics 9, 114. Interrelement effects 11, 133. Interfacial turbulence 4, 99. Interredicate vector boson 3, 86; 7, 64. Intermediate vector boson 3, 86; 7, 64. Intermediate vector boson 3, 86; 7, 64. International computer network international political tensions 11, 92. International trade fairs 5, 53; 7, 68. International trade fairs 5, 53; 7, 68. International trade practions 1, 96.
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron reutrino 3, 154. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic pollution 2, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transition 2, 151. Electronic transition 3, 127. Electronic transition 4, 132. Electrostatic tandem accelerator 5, 52. Elmo Bumpy Torus 7, 33. Element decay 7, 33. Electronic proper 17, 33, 77. Energy consumption 3, 123: 12, 78. Energy consumption 3, 123: 12, 78. Energy consumption 3, 115. Energy development 12, 45. Energy development 11, 132. Energy aveepstakes 11, 132. Energy aveepstakes 11, 132. Energy arransfer conductivity gages.	Fissile material content  12, 46.  512-kbit rhough of 11, 55.  Flame atomic absorption  11, 56.  Flame atomic absorption  12, 102.  12, 704.  12, 704.  12, 704.  12, 704.  13, 97.  12, 704.  13, 97.  14, 107.  15, 97.  16, 98.  16, 97.  16, 98.  16, 97.  16, 98.  17, 97.  18, 98.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  18, 50.  19, 704.  19, 704.  19, 704.  19, 704.  19, 704.  10, 706.  10, 709.  11, 126.  11, 126.  11, 127.  11, 126.  11, 127.  11, 126.  11, 127.  11, 126.  11, 126.  11, 127.  11, 126.  11, 126.  11, 126.  11, 127.  11, 126.  12, 126.  13, 126.  14, 126.  15, 126.  16, 126.  17, 126.  17, 126.  17, 126.  18, 126.  18, 126.  18, 126.  18, 126.  18, 1	Heat-pipe sandwich panel 10, 123. Heavi jons 12, 50. Helicolar delse isolators 12, 50. Helicolar delse isolators 2, 174; 5, 129. Helicopter design 1, 12, 50. Helicopter design 5, 76. Helium-2 emission 5, 52. Helium-2 emission 5, 52. Helium-2 emission 5, 52. Helium-2 emission 10, 103. Hewlett-Packard Co. 10, 79, 95, 99. High-pendency, high-power capacitors 10, 103. High frequency semiconductor 10, 103. High requency semiconductor 10, 103. High-performance X-ray spectrometry telliph-performance X-ray spectrometry telliph-pressure sodium vapor light 1, 15, 43. High-pressure sodium vapor light 1, 15, 68. High-pressure sodium vapor light 1, 68. High-pressure sodium vapor light 1, 15, 68. High-pressure sodium vapor light 1, 68. High-pressure dumen 11, 68. High-pressure structural X, 133. High-speed digital bus 1, 133. High-speed streak camera 3, 31, 127. High-lechnology investments 7, 70. High-lechnology investments 7, 70. High-lechnology starts-up 1, 33. High-lechnology starts-up 1, 33. High-lechnology starts-up 1, 33. High-performature optical fiber thermometer 10, 120. High-temperature structural material 7, 76.	Inorganic ingulating foam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film Insertion sequences 8, 77. Instant film Insertion sequences 9, 94. Instrument purchassing 12, 52. Instantification Laboratory Inc. 18, 79, 88. Insulated gate transitor 19, 35, 100. Integral rocket/ramplet (IRPI 11, 68. Insulated gate transitor 19, 35, 100. Integral rocket/ramplet (IRPI 11, 68. Integraling protocol software 8, 90. Integrating properly rights 11, 31. Intelescual properly rights 11, 31. Intelescual properly rights 11, 31. Internation of ocean and almosphere 5, 90. Interaction of ocean and almosphere 5, 90. Internation pattern 9, 74, 13. Internation pattern 9, 74, 13. Internation pattern 9, 74, 13. Internation of Internation Internat
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroecopy for chemical analysis 5. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 2, 72, 244; 4, 182, 187. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transitions 1, 132. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 2, 151. Element decay 7, 33. Element decay 7, 33. Emitter-coupled logic 2, 161. Employee performance 2, 247. Energic ions 10, 64; 12, 50. Energy consumption 3, 123; 12, 78. Energy consumption 3, 123; 12, 78. Energy consumption 3, 123; 12, 78. Energy development 12, 45. Energy development 1, 132. Energy development 1, 132. Energy transfer conductivity gages. Enoile analyzer 10, 76.	Fissile material content  12, 46.  Flame atomic absorption  Flame-retardart polymers  12, 76.  Flame atomic absorption  Flame-retardart polymers  12, 74.  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  19, 58.  Fluorometer/photometer analyze  19, 88.  Fluorometer/photometer analyze  19, 88.  Fluorometer/photometer analyze  19, 88.  Fluorometer/photometer analyze  19, 88.  Fluor density  19, 50.  Fluor density  19, 112.  Foreign competition  19, 46; 18, 60.  Foreign computer RAD  Foreign innovation  2, 29.  Foreign parter protection  11, 21.  Foreign restrictions  11, 12.  Foreign restrictions  12, 29.  Foreign restrictions  11, 20.  Foreign restrictions  11, 20.  Foreign restrictions  11, 21.  Foreign restrictions  11, 22.  Fresult restrictions  11, 24.  Fracture mechanisms  Fracture zones  11, 22.  Fracture zones  11, 22.  Fracture space carrier  11, 124.  Fracture space carrier  11, 124.  Fracture gace carrier  11, 124.  Fracture gace carrier  11, 124.  Fracture gace carrier  11, 124.  Fracture space carrier  11, 127.  Free market system  7, 71.  Free scientific exchange  7, 72.  Freequency tripling  7, 72.	Heat-pipe sandwich panel 10, 123. Heav jons 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 11, 86. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter design 15, 76. Helicopter design 16, 11, 86. Helicopter 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Increganic insulating foam 10, 112. Inserion sequences 8, 72. Instant film insulation Laboratorial 10, 112. Inserion sequences 8, 72. Instant film institutionalized medicorily 9, 94. Instrument purchasing 12, 52. Instrumentation Laboratory Inc. 18, 79, 88. Insulated gate recrifier 3, 43. Insulated gate transitor 19, 35, 100. Integral rocket/ramplet (IRP) 11, 68. Integraling capacitor 19, 15, 101. Integraling protocol software 8, 90. Interaction of ocean and almosphere 5, 90. Interaction of ocean and almosphere 5, 90. Interaction graphics 11, 13. International transitorial software 11, 133. International pattern 9, 74, 113. International pattern 9, 74, 113. International pattern 9, 74, 113. International computer network intermediate vector boson 1, 86; 7, 64. International political tensions 11, 92. International computer network 5, 11, 120. International trade fairs 5, 53; 7, 64. International trade practices 9, 88. International trade fairs 5, 53; 7, 64. International trade fairs 5, 53; 7,
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroecopy for chemical analysis 5. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 2, 72, 244; 4, 182, 187. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transitions 1, 132. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 2, 151. Element decay 7, 33. Element decay 7, 33. Emitter-coupled logic 2, 161. Employee performance 2, 247. Energic ions 10, 64; 12, 50. Energy consumption 3, 123; 12, 78. Energy consumption 3, 123; 12, 78. Energy consumption 3, 123; 12, 78. Energy development 12, 45. Energy development 1, 132. Energy development 1, 132. Energy transfer conductivity gages. Enoile analyzer 10, 76.	Fissile material content  12, 46.  512-kbit rhough of the properties of the properti	Heat-pipe sandwich panel 10, 123. Heavy ions Heavy ions Heavy ions Heavy ions Heavy ions Helicopter design Helicopter de	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Inseam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Instantionalized mediocrity 9, 94. Instrument purchassing 12, 52. Instrumentation Laboratory Inc. 18, 79, 89. Insulated gate recrifier 3, 43. Insulated gate transistor 18, 35, 100. Integrating capacitor 10, 167. Integrating capacitor 10, 167. Integrating property rights 1, 31. Intelestal interelement effects 11, 133. Interfacial turbulence 1, 14, 133. Interfacial turbulence 1, 9, 86. Interrection pattern 9, 86. Interrection pattern 9, 86. Interrection pattern 19, 11, 11. International computer network intermediate vector boson 3, 86; 7, 68. International political tensions 11, 92. International trade practions 1, 92. International trade practions 1, 96. International trade practions 1, 96. Interventiveness 3, 25, 110; 5, 134; 7, 126; 6, 69. Inventors 3, 190; 5, 203, 204. Inventors 3, 190; 5, 203, 204. Inventors 2, 86. Inventors 3, 190; 5, 203, 204. Inventors 2, 86. Inventors 3, 190; 5, 203, 204. Inventors 2, 86. Independent 10, 100. International trade practions 1, 96. Inventors 3, 190; 5, 203, 204. Inventors 3, 190; 5, 203, 204. Inventors 2, 86. Independent 10, 100. International trade practions 1, 96. Inventors 3, 190; 5, 203, 204. Inventors 2, 86. Interpolation 2, 86. Interpo
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroecopy for chemical analysis 3, 142. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transition 2, 151. Electronic transitions 1, 132. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 2, 247. Element decay 7, 33. Element decay 7, 33. Energy consumption 3, 123; 12, 78. Energy development 1, 132. Energy development 1, 132. Energy development 1, 132. Energy development 1, 132. Energy transfer conductivity gages 5. Engineer shortage 9, 78. Engineer shortage 10, 76. Engineer shortage 9, 78. Engineer shortage 10, 76. Engineer shortage 9, 78.	Fissile material content  12, 46.  512-kbit rhough of the properties of the properti	Heat-pipe sandwich panel 10, 123. Heav jons 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 11, 12, 50. Helicopter design 5, 76. Helicopter design 5, 76. Helicopter 6, 17, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	Increganic insulating foam 10, 112. In-seam seismic technique 6, 40. Intertible sequences 8, 77. Instant film insulation sequences 8, 77. Instant film institutionalized mediocrity 9, 94. Instrument purchasing 12, 52. Instrumentation Laboratory Inc. 18, 79, 88. Insulated gate rectifier 3, 43. Insulated gate transitor 19, 35, 100. Integral rocket/ramplet (IRP) 11, 68. Integraling capacitor 10, 167. Integraling protocol software 8, 90. Interaction of ocean and almosphere 5, 90. Interaction of ocean and almosphere 5, 90. Interaction of ocean and almosphere 5, 90. Interaction graphics 11, 133. Interfacial turbulence 7, 14, 133. Interfacial turbulence 9, 14, 153. Interfacial turbulence 9, 14, 153. Interfacial turbulence 9, 14, 153. International computer network 11, 112. Intermediate vector boson 3, 86; 7, 64. International computer network 11, 112. International computer network 11, 112. International trade fairs 5, 53; 7, 64. International trade practices 9, 68. International trade practices 9, 68. International trade practices 9, 68. International trade practices 9, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroecopy for chemical analysis 3, 142. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic pollution 2, 72, 244; 4, 182, 187; 199. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transitions 1, 132. Electrostatic tandem accelerator 2, 247. Electronic proprieta 3, 137; 12, 78. Employee performance 2, 247. Energic ions 10, 64; 12, 50. Energy consumption 3, 123; 12, 78. Energy costs 1, 132. Energy development 1, 132. Energy development 1, 132. Energy development 1, 132. Energy transfer conductivity gages. Engineering education 4, 44; 9, 78. Engineering education 4, 44; 9, 78. Engineering plastics 6, 97; 7, 33; 10, 92.	Fissile material content  12, 46.  512-kibit rho  Flame atomic absorption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring  Fluid stansferring	Heat-pipe sandwich panel 10, 123. Heavy ions Heavy ions Heavy ions Heavy ions Helicopter design Helicopter des design Helicopter des design Helicopter des design Helicopter des	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 10, 112. Instant film 10, 112. Instant film 10, 112. Instant film 112. Instrument purchasing 12, 52. Instrumentation Laboratory Inc. 18, 79, 88. Insulated gate rectifier 19, 35, 100. Integrating capacitor 10, 15, 100. Integrating protocol software 8, 90. Integrating properly rights 11, 31. Intelectual properly rights 11, 31. Intelectual properly rights 11, 31. Interactive graphics 9, 114. Interactive graphics 9, 114. Interredicate vector boson 8, 85; 7, 64. Intermediate vector boson 8, 85; 7, 64. Intermediate vector boson 8, 85; 7, 64. Intermational computer network 5, 53. International political teracions 11, 122. International political teracions 11, 122. International trade practicus 11, 122. International trade prac
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron reutrino 2, 44; 3, 51. Electronic permitte stating 3, 142. Electronic device testing 3, 142. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution Electronic pollution Electronic pollution Electronic transitions 1, 127. Electronic publishing medium 2, 151. Electronic suppression 2, 151. Electronic transitions 7, 68. Electrostatic tandem accelerator 1, 132. Electrostatic tandem accelerator 2, 151. Electronic transitions 7, 127. Electronic problemance 2, 151. Electronic problema	Fissile material content  12, 46.  512-kibit rho  Flame atomic absorption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring  Fluid stansferring	Heat-pipe sandwich panel 10, 123. Heavy ions Heavy ions Heavy ions Heavy ions Helicopter design Helicopter des Hel	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insartion sequences 8, 77. Instart film 10, 112. Inseam seismic technique 6, 40. Insartion sequences 8, 77. Instart film 10, 112. Instantionalized mediocrity 9, 94. Instrument purchassing 12, 52. Instrument purchassing 14, 54. Instrument purchassing 14, 54. Instrument 19, 54. Instrument 19, 54. Instrument 19, 54. Intergrating protocol software 10, 16. Intergrating protocol software 10, 16. Intergrating protocol software 10, 16. Intergrating property rights 11, 31. Interleat 11, 31. Interfaction of ocean and almouphers 6, 90. Interactive graphics 11, 133. Interfaction of ocean and almouphers 4, 99. Interference pattern 9, 86. Interference pattern 9, 86. Interference pattern 9, 86. Intermedicate vector boson 3, 86; 7, 64. Intermedicate vector boson 3, 86; 7, 64. Intermedicate vector boson 1, 92. Intermational trade practions 11, 92. International trade practions 11, 92. International trade practions 1, 93. International tra
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroecopy for chemical analysis 3, 142. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 2, 12, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transition 2, 151. Electronic transition 3, 127. Electronic transition 4, 11, 132. Electrostatic tandem accelerator 5, 52. Elmo Bumpy Torus 7, 33. Element decay 7, 33. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 1, 34. Electrostatic tandem accelerator 1, 32. Electronic pollution 1, 32. Electronic pol	Fissile material content  12, 46.  Fissile material content  12, 46.  Flame atomic absorption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring  Fluid stansferring	Heat-pipe sandwich panel 10, 123. Heavi jons 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 11, 86. Helicopter design 5, 76. Helicung-termination 5, 52. Helicung-termination 5, 52. Helicung-termination 5, 52. Helicung-termination 5, 52. Helicung-termination 1, 9, 110. Hewiett-Packard Co. 10, 79, 95, 99. High-perdormance hermoplastics 6, 97. High-performance hermoplastics 7, 93. High-performance hermoplastics 8, 97. High-performance hermoplastics 7, 93. High-pressure scotlam vapor light 10, 103. High-pressure scotlam vapor light 10, 116. High-pressure wind turnel 11, 68. High-performance hermoplastics 2, 136. High-speed columns 11, 68. High-speed digital bus 11, 68. High-lechnology exports 8, 45. High-lechnology investments 7, 70. High-lechnology investments 7,	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 10, 112. Instant film 10, 112. Instant film 10, 112. Instant film 11, 112. Instant film 11, 112. Instant film 11, 112. Instantionalized mediocrity 9, 94. Instrument purchasing 12, 52. Instantionalized mediocrity 19, 95. Insulated gate rectifier 19, 35, 100. Integrating capacitor 10, 15, 100. Integrating capacitor 10, 16, 75. Integrating protocol software 8, 90. Interaction of ocean and almosphere 5, 90. Interaction of ocean and almosphere 5, 90. Interaction properly rights 11, 31. Interaction of ocean and almosphere 5, 90. Interaction of ocean and almosphere 5, 90. Interaction pattern 11, 133. Interfacial turbulence 11, 134. Interfacial turbulence 11
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroecopy for chemical analysis 5. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic pollution 2, 12, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transitions 1, 132. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 2, 151. Element decay 7, 33. Element decay 7, 33. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 132. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 3, 53. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 3, 53. Electronic pollution 2, 4, 44; 8, 78. Engineering education 4, 44; 9, 78. Engineering education 4	Fissile material content  12, 46.  Fissile material content  12, 46.  Flame atomic absorption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring  Fluid stansferring	Heat-pipe sandwich panel 10, 123. Heavi jons 12, 50. Helical cable isolators 12, 50. Helical cable isolators 2, 174; 5, 129. Helicopter design 11, 86. Helicopter design 5, 76. Helicopter design 15, 76. Helicopter Gesign 15, 76. Helicopter Gesign 16, 110. Hewiett-Packard Co. 10, 79, 95, 99. High-persource, high-power capacitors 10, 103. High frequency semiconductor 10, 103. High frequency high-power capacitors 10, 104. High-performance thermoplastics 6, 97. High-performance thermoplastics 7, 43. High-pressure scotium vapor light 10, 103. High-pressure scotium vapor light 10, 103. High-pressure scotium vapor light 10, 116. High-pressure scotium vapor light 11, 68. High-pressure wind turnel 11, 68. High-pressure wind turnel 11, 68. High-ped communication 11, 168. High-speed columns 11, 68. High-speed digital bus 11, 68. High-lechnology sports 8, 45. High-lechnology investments 7, 70. High-lechnology investments 7, 70. High-lechnology investments 7, 70. High-lechnology investments 7, 70. High-lechnology strate 1, 33. High-lechnology strate 10, 120. High-lemperature vapor deposition 6, 113. High-organize direct current converter stations 9, 148. High-voltage surges 11, 140. High-lemperature sport deposition 6, 113. High-voltage surges 19, 48. High-voltage surges 19, 48. High-voltage surges 19, 48. High-lemperature sport deposition 6, 113. High-voltage surges 19, 48. High-voltage surge	Inorganic insulating loam 10, 112. In-seam seismic technique 8, 40. Insartion sequences 8, 77. Instant film 10, 112. Inseam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Instantionalized mediocrity 9, 94. Instrument purchassing 12, 52. Instantiation alboratory inc. 18, 79, 89. Insulated gate rectifier 3, 43. Insulated gate transistor 19, 35, 100. Integrating capacitor 10, 167. Integrating capacitor 10, 167. Integrating properly rights 1, 31. Intelestal interference property rights 1, 31. Intelestal interference 9, 80. Interactive graphics 11, 133. Interfacial turbulence 1, 11, 133. Interfacial turbulence 1, 14, 134. Interfacial turbulence 1, 14, 134. Interfacial turbulence 1, 15, 134. Interfacial turbulence 1, 14,
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroecopy for chemical analysis 5. Electronic device testing 3, 142. Electronic device testing 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic pollution 2, 12, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transitions 1, 132. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 2, 151. Element decay 7, 33. Element decay 7, 33. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 132. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 3, 53. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 3, 53. Electronic pollution 2, 4, 44; 8, 78. Engineering education 4, 44; 9, 78. Engineering education 4	Fissile material content  12, 46.  Fissile material content  12, 46.  Flame atomic absorption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring  Fluid stansferring	Heet-pipe sandwich panel 10, 123. Heavi jons Alexiv jons Heilicat cable isolators 2, 174; 5, 129. Heilicat cable isolators 5, 76. Heilicat cable isolators 6, 77. High-reformance Memoplastics 8, 97. High-performance hermoplastics 8, 97. High-performance hermoplastics 9, 98. High-pressure etching 8, 110. High-pressure sodium vapor light 10, 46. High-pressure sodium vapor light 11, 68. High-pressure wind tunnel 11, 68. High-pressure wind tunnel 11, 68. High-peed columns 3, 132. High-speed columns 11, 68. High-speed digital bus 11, 68. High-speed streak camera 9, 39. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology strate 11, 120. High-temperature oblerant electronic devices 18. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-voltage surges 4, 123. Hinney practices 19, 48. Hodel, Donald 10, 120. 3, 78.	Inorganic insulating loam 10, 112. In-seam seismic technique 8, 40. Insartion sequences 8, 77. Instant film 10, 112. Inseam seismic technique 6, 40. Insartion sequences 8, 77. Instant film 10, 112. Instantionalized mediocrity 9, 94. Instrument purchassing 12, 52. Instrumentation Laboratory Inc. 18, 79, 89. Insulated gate recrifier 3, 43. Insulated gate transistor 18, 35, 100. Integrating capacitor 10, 167. Integrating capacitor 10, 167. Integrating property rights 1, 31. Intelestal interference paper 1, 34. Interference 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron reutrino 3, 154. Electronic permics 3, 142. Electronic device testing 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic pollution 2, 12, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transition 2, 151. Electronic transition 3, 127. Electronic publishing medium 2, 151. Electronic transition 4, 11, 132. Electrostatic tandem accelerator 5, 52. Elmo Bumpy Torus 7, 33. Electrostatic tandem accelerator 1, 132. Electrostatic tandem accelerator 1, 132. Element decay 7, 33. Electrostatic tandem accelerator 1, 132. Element of capt 1, 132. Electronic publishing medium 2, 247. Energy consumption 3, 131. Energy consumption 3, 131. Energy development 11, 132. Energy development 12, 45. Energy transfer conductivity gages 10, 164. Engine analyzer 10, 76. Engineering education 4, 44; 9, 78. Engineering education 9, 78. Engineering plastics 6, 97; 7, 33; 10, 92. Environmental protection 2, 82. Environmental protection 5, 78.	Fissile material content  12, 46.  Fissile material content  12, 46.  Flame atomic absorption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring  Fluid stansferring	Heet-pipe sandwich panel 10, 123. Heavi jons Alexiv jons Heilicat cable isolators 2, 174; 5, 129. Heilicat cable isolators 5, 76. Heilicat cable isolators 6, 77. High-reformance Memoplastics 8, 97. High-performance hermoplastics 8, 97. High-performance hermoplastics 9, 98. High-pressure etching 8, 110. High-pressure sodium vapor light 10, 46. High-pressure sodium vapor light 11, 68. High-pressure wind tunnel 11, 68. High-pressure wind tunnel 11, 68. High-peed columns 3, 132. High-speed columns 11, 68. High-speed digital bus 11, 68. High-speed streak camera 9, 39. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology strate 11, 120. High-temperature oblerant electronic devices 18. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-voltage surges 4, 123. Hinney practices 19, 48. Hodel, Donald 10, 120. 3, 78.	Inorganic insulating foam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 9, 94. Instrument purchasing 12, 52. Instant film 19, 94. Instrument purchasing 12, 52. Instantification Laboratory Inc. 18, 79, 88. Insulated gate recifier 19, 35, 100. Integrating capacitor 10, 157. Integrating capacitor 10, 167. Integrating protocol software 8, 90. Interaction of ocean and almosphere 8, 90. Interactive graphics 11, 31. Intertaction purchased 11, 133. Intertaction of count and almosphere 8, 90. Intertac
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron reutrino 3, 154. Electronic permics 3, 142. Electronic device testing 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 3, 127. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transition 3, 127. Electronic publishing medium 2, 151. Electronic transition 4, 11, 132. Electrostatic tandem accelerator 5, 52. Elmo Bumpy Torus 7, 33. Electrostatic tandem accelerator 19, 53. Element decay 7, 33. Electrostatic tandem accelerator 19, 53. Element decay 7, 33. Electrostatic tandem accelerator 19, 53. Element decay 7, 33. Electrostatic tandem accelerator 19, 53. Element decay 11, 132. Electrostatic tandem accelerator 19, 53. Energy consumption 3, 172, 73. Energy consumption 3, 172, 73. Energy consumption 3, 123, 112, 78. Energy development 12, 45. Energy development 12, 45. Energy transfer conductivity gages 10, 164. Engine analyzer 10, 76. Engineering education 4, 44; 9, 78. Engineering patatics 6, 97; 7, 33; 10, 92. Environmental exposure 7, 93; 10, 92. Electronic patatics 6, 97; 7, 93; 10, 92. Electronic patatics 6, 97; 7, 93; 10, 92. Electronic patatics 6, 97; 7, 93; 10,	Fissile material content  12, 46.  512-kibit rho  Flame atomic abeoption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring	Heet-pipe sandwich panel 10, 123. Heavi jons Alexiv jons Heilicat cable isolators 2, 174; 5, 129. Heilicat cable isolators 5, 76. Heilicat cable isolators 6, 77. High-reformance Memoplastics 8, 97. High-performance hermoplastics 8, 97. High-performance hermoplastics 9, 98. High-pressure etching 8, 110. High-pressure sodium vapor light 10, 46. High-pressure sodium vapor light 11, 68. High-pressure wind tunnel 11, 68. High-pressure wind tunnel 11, 68. High-peed columns 3, 132. High-speed columns 11, 68. High-speed digital bus 11, 68. High-speed streak camera 9, 39. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology strate 11, 120. High-temperature oblerant electronic devices 18. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-voltage surges 4, 123. Hinney practices 19, 48. Hodel, Donald 10, 120. 3, 78.	Inorganic insulating foam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 9, 34. Instrument purchasing 12, 52. Instant film 12, 52. Instant film 12, 52. Instant film 12, 52. Instrument purchasing 12, 52. Instrument purchasing 12, 52. Instrument purchasing 12, 52. Insulated gate recifier 18, 35, 100. Integrating capacitor 19, 35, 100. Integrating protocol software 8, 90. Integrating properly rights 11, 31. Interlead 19, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron reutrino 3, 154. Electronic permics 3, 142. Electronic device testing 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 3, 127. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic publishing medium 2, 151. Electronic transition 3, 127. Electronic publishing medium 2, 151. Electronic transition 4, 11, 132. Electrostatic tandem accelerator 5, 52. Elmo Bumpy Torus 7, 33. Electrostatic tandem accelerator 19, 53. Element decay 7, 33. Electrostatic tandem accelerator 19, 53. Element decay 7, 33. Electrostatic tandem accelerator 19, 53. Element decay 7, 33. Electrostatic tandem accelerator 19, 53. Element decay 11, 132. Electrostatic tandem accelerator 19, 53. Energy consumption 3, 172, 73. Energy consumption 3, 172, 73. Energy consumption 3, 123, 112, 78. Energy development 12, 45. Energy development 12, 45. Energy transfer conductivity gages 10, 164. Engine analyzer 10, 76. Engineering education 4, 44; 9, 78. Engineering patatics 6, 97; 7, 33; 10, 92. Environmental exposure 7, 93; 10, 92. Electronic patatics 6, 97; 7, 93; 10, 92. Electronic patatics 6, 97; 7, 93; 10, 92. Electronic patatics 6, 97; 7, 93; 10,	Fissile material content  12, 46.  512-kibit rho  Flame atomic abeoption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring	Heet-pipe sandwich panel 10, 123. Heavi jons Alexiv jons Heilicat cable isolators 2, 174; 5, 129. Heilicat cable isolators 5, 76. Heilicat cable isolators 6, 77. High-reformance Memoplastics 8, 97. High-performance hermoplastics 8, 97. High-performance hermoplastics 9, 98. High-pressure etching 8, 110. High-pressure sodium vapor light 10, 46. High-pressure sodium vapor light 11, 68. High-pressure wind tunnel 11, 68. High-pressure wind tunnel 11, 68. High-peed columns 3, 132. High-speed columns 11, 68. High-speed digital bus 11, 68. High-speed streak camera 9, 39. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology strate 11, 120. High-temperature oblerant electronic devices 18. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-voltage surges 4, 123. Hinney practices 19, 48. Hodel, Donald 10, 120. 3, 78.	Inorganic insulating foam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 9, 34. Instrument purchasing 12, 52. Instant film 12, 52. Instant film 12, 52. Instant film 12, 52. Instrument purchasing 12, 52. Instrument purchasing 12, 52. Instrument purchasing 12, 52. Insulated gate recifier 18, 35, 100. Integrating capacitor 19, 35, 100. Integrating protocol software 8, 90. Integrating properly rights 11, 31. Interlead 19, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron reutrino 3, 154. Electronic permics 3, 142. Electronic device testing 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic newspaper" 2, 43; 6, 3, 127. Electronic pollution 2, 72, 244; 4, 182, 187. Electronic publishing medium 2, 151. Electronic publishing medium 3, 127. Electronic publishing medium 2, 151. Electronic problishing medium 2, 151. Electronic problishing medium 3, 127. Electronic publishing medium 2, 151. Electronic problishing medium 3, 127. Electronic problishing medium 2, 151. Electronic problishing medium 3, 127. Electronic problishing medium 2, 151. Electronic problishing medium 3, 127. Electronic problishing medium 1, 132. Electronic problishing medium 1, 132. Electronic problishing medium 1, 132. Electronic publishing medium 1, 132. Electronic publishing medium 1, 132. Energy operation 3, 127, 73. Energy conservation 3, 37: 12, 37. Energy development 12, 45. Energy development 12, 45. Energy development 1, 132. Energy	Fissile material content  12, 46.  Flame atomic absorption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring  Fluid stansfe	Mest-pipe sandwich panel   10, 123.	Inorganic insulating foam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 9, 34. Instrument purchasing 12, 52. Instant film 12, 52. Instant film 12, 52. Instant film 12, 52. Instrument purchasing 12, 52. Instrument purchasing 12, 52. Instrument purchasing 12, 52. Insulated gate recifier 18, 35, 100. Integrating capacitor 19, 35, 100. Integrating protocol software 8, 90. Integrating properly rights 11, 31. Interlead 19, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
Electron energy 12, 39. Electron impact ionization 11, 124. Electron microscopy 2, 44; 3, 51. Electron neutrino 2, 44; 3, 51. Electron spectroscopy for chemical analysis 3, 142. Electronic ceramics 3, 142. Electronic device testing 3, 127. Electronic newspaper 2, 43; 6, 3, 127. Electronic newspaper 3, 127. Electronic pollution 3, 127. Electronic publishing medium 6, 125. Electronic publishing medium 7, 68. Electronic publishing medium 7, 68. Electronic publishing medium 8, 127. Electronic publishing medium 9, 53. Electronic suppression 2, 151. Electrostatic tandem accelerator 1, 32. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 1, 33. Electrostatic tandem accelerator 1, 32. Electrostatic tandem 3, 37; 12, 78. Elementy coupled logic 2, 161. Employee performance 2, 247. Energy consumption 3, 37; 12, 78. Energy consumption 3, 123; 12, 78. Energy consumption 3, 123; 12, 78. Energy consumption 3, 123; 12, 78. Energy development 12, 45. Energy development 12, 45. Energy transfer conductivity gages. Energy costs 10, 164. Engine analyzer 10, 76. Engineering education 4, 44; 9, 78. Engineering education 4, 44; 9, 78. Engineering plastics 6, 97; 7, 33; 10, 92. Environmental exposure 7, 93; 94; 95; 97; 97; 97; 97; 97; 97; 97; 97; 97; 97	Fissile material content  12, 46.  512-kibit rho  Flame atomic abeoption  Flame-retardart polymers  12, 74.  Fluid-mechanics computer program 4, 130.  Fluid resistance  Fluid transferring  Fluid resistance  Fluid stansferring	Heet-pipe sandwich panel 10, 123. Heavi jons Alexiv jons Heilicat cable isolators 2, 174; 5, 129. Heilicat cable isolators 5, 76. Heilicat cable isolators 6, 77. High-reformance Memoplastics 8, 97. High-performance hermoplastics 8, 97. High-performance hermoplastics 9, 98. High-pressure etching 8, 110. High-pressure sodium vapor light 10, 46. High-pressure sodium vapor light 11, 68. High-pressure wind tunnel 11, 68. High-pressure wind tunnel 11, 68. High-peed columns 3, 132. High-speed columns 11, 68. High-speed digital bus 11, 68. High-speed streak camera 9, 39. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology investments 7, 70. High-technology strate 11, 120. High-temperature oblerant electronic devices 18. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-temperature structural material 7, 76. High-temperature veryor deposition 6, 113. High-voltage surges 4, 123. Hinney practices 19, 48. Hodel, Donald 10, 120. 3, 78.	Inorganic insulating loam 10, 112. In-seam seismic technique 6, 40. Insertion sequences 8, 77. Instant film 10, 112. Insertion sequences 8, 77. Instant film 10, 112. Instant film 112. Instrument purchasing 12, 52. Instrumentation Laboratory Inc. 18, 79, 88. Insulated gate recitier 19, 35, 100. Integrating capacitor 10, 167. Integrating protocol software 8, 90. Interaction of ocean and almosphere 8, 90. Interaction of ocean and almosphere 9, 90. Interaction of ocean and almosphere 9, 90. Interaction of ocean and almosphere 9, 90. Interaction graphics 11, 13. Intertactial turbulence 11, 133. Interfacial turbulence 14, 99. Interrement effects 11, 133. Interfacial turbulence 14, 99. Interrement 10, 100. Interrement 10

## Index to Volume 25 (1983) of IR&D

Isocyanatoethyl methacrylate Isolation requirements Isotope separation 9, 84 Isotopic dating Israel's high technology 2, 44, 80 Israeli R&D	8, 62. 0; <b>12,</b> 40.
_J_	
Japanese competition	7, 11. 2, 31.
Job formation Joining optical fibers	2, 31.
Josephson junction	2, 81. 3, 58.
Jumping genes	11, 49.
Junction depth	11, 49. 3, 141.
Jupiter Effect 3, 1	17; 6, 17.
Jupiter's satellites	2, 53.
_K_	
K-Resin polymers "Kevlar" 4, 66; 9, 78; 11	6, 104.
'Kevlar'-based materials	11, 82.
Keyboard development	6, 108.
Keyword Thesaurus	4, 41,
Kinetic energy	8, 120.
Knowledge-based system Krypton atom v*bration	8, 97.
Krypton lamp	9, 60. 9, 60.
Ku-band radar system	7, 48.
-L-	
Lab automation system	8, 82. 3, 120. 39; 8, 91;
Lab space Labcon Central '83 5, 85; 6, 3	3, 120.
	11. 70
Labcon New England 8, 46	
Labcon West 4,	0; 10, 39. 41; 7, 38. 40, 96.
Laboratory communications network	10, 96.
Laboratory information manageme system	8, 83.
Laboratory of the Year 1, 54; 5, 9	7; 11, 70.
Lab safety procedure	11, 50.
Laboratory wastes	11, 49.
Large electron-positron accelerate	or 3,88.
Large Magellanic Cloud 3,	92; 4, 51.
Large-scale integration (LSI) Laser balancing system	10, 108.
Laser beams	0 94
Laser desorption	9, 156.
Laser diodes	9, 156. 5, 66. 6, 62.
Laser-doppler anemometry Laser-fiber-optic gyroscope	6, 62. 4, 72.
Laser fusion	4, 72. 11, 37. ry 9, 154. 12, 35
Laser ionization mass spectromet	ry 9, 154.
Laser light pulsing Laser measurement system 10	
Laser measurement system 10. Laser microprobe line profiles	9, 156.
Laser microscope	9, 156. 11, 124.
Laser multiphoton ionization	11, 124.
Laser-optical instrumentation Laser optogalvanic spectroscopy	9, 156. 11, 124. 11, 51. 10, 156. 7, 66. 8, 65
Laser video-disk systems	10, 156. 7, 66. 8, 65.
Lattice-matched materials	8, 65. 5, 201.
Lava fube Lawrence Livermore National	5, 201.
Laboratory	10, 103.
Lead-acid battery	
Lead fire assay method	
Leaf poisoning Leaf springs	9, 70
LeCroy Research Systems	9, 70. 10, 100. 12, 55. 9, 40.
Leage tool	12, 55.
Leg injuries from skiing	
Legal prior art Legal protection	7, 28.
Legal technicalities	9, 106.
Legal transfers of technology	
Lens aperture aberrations Leptons	3, 51.
Lethal force	3, 88. 1, 11.
License agreement	7, 27
Licensing of patents	7, 27. 5, 51.
Lidex Corporation Ltd.	10, 76.
Light helicopter program Light pollution	11, 86. 10, 46.
Light-sensitive thyristor	9, 54.
Lightning strikes 2, 4	8-4 123
Lightwave communications 9, 8	4; 12, 35.
Lightweight mirror system Limited disclosure	12, 50.
Linear accelerator	12, 50. 12, 29. 7, 37.
Linear collider	9, 50.
Linear imaging charge-coupled	
carton arranging criticigo coupled	6. 72
device	4. 110-
Liquid chromatography column	4, 72. 4, 110; 10, 76.
Liquid chromatography column  Liquid flowmetering instrument	10, 76. 10, 135.
Liquid chromatography column  Liquid flowmetering instrument Liquid helium transfer line	10, 76. 10, 135. 10, 139.
device Liquid chromatography column Liquid flowmetering instrument Liquid helium transfer line Liquid scintillation counting	10, 76. 10, 135. 10, 139.
device Liquid chromatography column Liquid flowmetering instrument Liquid helium transfer line Liquid scintillation counting Lithium-drifted silicon detector Litton Industries	10, 76. 10, 135. 10, 139.
device Liquid chromatography column Liquid flowmetering instrument Liquid helium transfer line Liquid scimiliation counting Lithium-drifted silicon detector Litton industries Lobed-rotor pumps	10, 76. 10, 135. 10, 139. 2, 81. 11, 134. 10, 108. 4, 141.
delivice Liquid chromatography column Liquid flowmetering instrument Liquid seilium transfer line Liquid sciilillation counting Lithium-drifted silicon detector Litton industries Lobed-rotor pumps Local area network 4.	10, 76. 10, 135. 10, 139. 2, 81. 11, 134. 10, 108. 4, 141. 74; 6, 88.
device Liquid dhromatography column Liquid flowmetering instrument Liquid helium transfer line Liquid scintillation counting Lithium-drifted allicon detector Littion industries Lobed-rotor pumps Local area network Logic analyzer 4,	10, 76. 10, 135. 10, 139. 2, 81. 11, 134. 10, 108. 4, 141. 74; 6, 88. 5, 118.
delivice Liquid chromatography column Liquid flowmetering instrument Liquid selium transfer line Liquid selium transfer line Liquid selilitation counting Lithium-drifted silicon detector Litton industries Lobed-rotor pumps Local area network Logic analyzer Logic analyzer Logic actales	10, 76. 10, 135. 10, 139. 2, 81. 11, 134. 10, 108. 4, 141. 74; 6, 88. 5, 118.
delivice Liquid chromatography column Liquid flowmetering instrument Liquid seilium transfer line Liquid seilium transfer line Liquid seilitellid counting Lithium-drifted silicon detector Litton Industries Lobed-rotor pumps Local area network Logic analyzer Logic gatee Long-distance microscope Long-distance microscope Long-term capital spending	10, 76. 10, 135. 10, 139. 2, 81. 11, 134. 10, 108. 4, 141. 74; 6, 88. 5, 118. 9, 81. 10, 111.
delivice Liquid flowmetering instrument Liquid flowmetering instrument Liquid helium transfer line Liquid scinitiation counting Lithium-drifted allicon detector Lithion industries Lobed-rotor pumps Local area network Logic analyzer Logic gates Long-distance microscope Long-term capital spending Long-term precision	10, 76. 10, 135. 10, 139. 2, 81. 11, 134. 10, 108. 4, 141. 74; 6, 88. 5, 118. 9, 81. 10, 111.
dievice Liquid chromatography column Liquid flowmetering instrument Liquid helium transfer line Liquid schilllation counting Lithium-drifled silicon detector Litton industries Lobed-rotor pumps Local area neriwork Logic analyzer Logic gates Long-distance microscope Long-term capital spending Long-term precision Los Alamos National Laboratory Logic Analyzer Long-term specision Los Alamos National Laboratory	10, 76. 10, 135. 10, 139. 2, 81. 11, 134. 10, 106. 4, 141. 74; 6, 88. 5, 118. 9, 81. 10, 111. 1, 69. 2, 103. 10, 116.
device Liquid flowmetering instrument Liquid flowmetering instrument Liquid selium transfer line Liquid selium transfer line Liquid selimitation counting Lithium-drifted allicon detector Littion industries Lobed-rottor pumps Local area network Logic analyzer Logic gates Long-distance microscope Long-term capital spending Long-term precision	10, 76. 10, 135. 10, 139. 2, 81. 11, 134. 10, 108. 4, 141. 74; 6, 88. 5, 118.

Low-frequency repetitive funnel	
noises	9, 42.
Low-Earth-orbit spacestations 6	
Low-energy electrons	12, 50.
Low-energy telescopes	12, 58.
Low-pressure sodium vapor light	10, 46.
Low-temperature memory systems	9, 58.
Low-temperature plasma	3, 53. 6, 76.
Lunar polar orbiting spacecraft	6, 76.
Lunar stations	6, 76.
Lynds 1642	9, 74.
-M-	
***	
MTS Systems Corp.	10, 87. 4, 182.
MX missiles	4, 182.
Machine software	5, 53.
Magnetic confinement fusion	10, 35.
Magnetic contamination	11, 91.
Magnetic control surface technolog Magnetic field 2, 66; 6, 64; 7, 33 11,	y 1, 58. ; 8, 116; 91, 125
Magnetic field 2, 66; 6, 64; 7, 33	8, 116;
Manuelia fi	
Magnetic flux Magnetic fusion program 5, 43	3, 114.
Magnetic levitation Magnetic recording medium	8, 46. 8, 35.
Magneto-optic display	40 400
Magnetohydrodynamics(MHD)	2 72
Magnetron ion etching	8, 115
Magnified depth profiles	
"Mailbox"	6. 3.
Malignancy	12, 11.
Mammalian cells	6, 3. 12, 11. 8, 78.
Man-made pollution	8, 48.
Mapping x-ray spectrometer	2 66
Marine and air transportation	9, 70.
Marine ecosystems	
Mariner Mark 2	7, 50.
Marketing myopia	6, 23.
Mars 6, 72; 7, 5	0-0 64
Mary Rose	8, 45,
Masked multichannel scaler	2, 160.
Mass measurement	
Mass murder	3, 193,
Mass-produced automobiles	5, 23. 10, 79.
Mass-selective detector	10, 79.
Mass transformation	4, 98.
Masscomp	10, 99.
Massive solar companion 6, 17	7, 9, 205. 7, 62. 5, 54.
Massiess neutrino	7, 62.
Materials handling center	5, 54.
Materials processing 6, 71; 9 Materials technology 4, 42; 5, 5	, 04, 84.
Materials techninogy 4, 42; 5, 5	3, 76.
Mathematical furnado model Matsushita Electric Industrial 10, 1 Maxwell Laboratories Inc.	3, 76. 103, 115. 10, 103.
Maxwell Laboratories Inc.	10 102
McClintock, Barbara	11, 49.
McCinitoon, Darbara	11, 70.
	10 06
McDonnell Douglas Corp.  Measurement of hydrogen cyanide.	10, 96.
McDonnell Douglas Corp.  Measurement of hydrogen cyanide  Measurements of the Sun	10, 96.
Measurement of hydrogen cyanide Measurements of the Sun	10, 96.
Measurement of hydrogen cyanide Measurements of the Sun Mechanical Technology Inc.	10, 96. 10, 136. 5, 92. 10, 108.
Measurement of hydrogen cyanide Measurements of the Sun Mechanical Technology Inc. Mechanical vibration	10, 96. 10, 136. 5, 92. 10, 108. 8, 98.
Measurement of riydrogen cyanide Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85.
Measurement of rhydrogen cyanide Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine 4,3	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84.
Measurement of rhydrogen cyanide Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine 4,3	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84.
Measurement of hydrogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical vibration Medical prostheses Medicine Medicority Medicority Medicority Melien Co. Inc.	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132.
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicarie Medical the Medical imaging system Medicarie Medicority Mellen Co. Inc. Melt cooling	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112.
Measurement of the Sun Meachanical Technology Inc. Mechanical Vibration Medical imaging system Medical prostheses Medicary Medicority Medicority Mellen Co. Inc. Met cooling Membrane switch keyboards	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109.
Measurement of the Sun Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medicority Medien Co. Inc. Met cooling Membrane switch keyboards Memory storage	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54.
Measurement or hydrogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical or osotheses Medicine Medicority Medion Co. Inc. Met cooling Membrane switch keyboards Memory storage Mentor O&O Inc.	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54.
Measurement or tryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical in System Medical in Me	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109.
Measurement or hydrogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medicority Mellen Co. Inc. Met cooling Membrane switch keyboards Memory storage Mentor Odo Inc. Metalliding Metal-organic chemical	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40.
Measurement or tryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medicority Mellen Co. Inc. Met cooling Membrane switch keyboards Memory storage Mentor O&O Inc. Metallicing Metall-organic chemical vapor deposition  1,1	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54.
Measurement of ryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medicaline Medicaline Medicaline Medicaline Medicaline Medicaline Medicaline Medicaline Medicaline Membrane switch keyboards Memory storage Mentior O&O Inc. Metalliding Metal-organic chemical vapor deposition 1,1 Metal oxide semiconductor	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88, 12, 40.
Measurement of ryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostiteses Mediccine Medical imaging system Medical prostiteses Mediccine Medical imaging system Medical prostiteses Mediccine Medical imaging system Medical vibration Medical imaging system Medical imaging s	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81.
Measurement or hyprogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical imaging system Medical prostheses Medicine Medical imaging system Medical prostheses Medicine Medical imaging system Medical imaging system Medical imaging system Medical imaging Membrane switch keyboards Memory storage Memory storag	10, 96. 10, 136. 10, 138. 8, 98. 5, 85. 6, 60. 36; 9, 84. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66.
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medicority Mellen Co. Inc. Met cooling Membrane switch keyboards Memory storage Mentor O&O Inc. Metalliding Metal-organic chemical vapor deposition Metal oxide semiconductor technology Metal vapor deposition Methanol-Lueled transit bus	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36, 9, 84. 47, 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53.
Measurement or tryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicaline Medical inspire system Medical prostheses Medicaline Medical inspire system Medicaline Medicaline Medicaline Medicaline Membrane switch keyboards Memory storage Mentior O&O Inc. Metalliding Metal-organic chemical vapor deposition	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53.
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medicority Mellen Co. Inc. Met cooling Membrane switch keyboards Memory storage Mentor O&O Inc. Metalliding Metal-organic chemical vapor deposition Metal oxide semiconductor technology Metal vapor deposition Methanol-Lueled transit bus	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86, 81, 81,
Measurement of ryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Vibration Medical imaging system Medical prostheses Medicine Medical imaging system Medical prostheses Medicine Medical imaging system Medical imaging system Medical imaging system Medical imaging system Medical imaging Medical imaging Medical imaging Medical imaging Metal-organic chemical vapor deposition Metal imaging Metal-organic chemical vapor deposition Metal oxide semiconductor lechnology Metal vapor deposition Methanol-fueled transit bus Methad calibration Methods-development 4, 116;	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86. 8, 86; 11,
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Vibration Medical Imaging system Medical prostheses Medicine Medical Prostheses Medicine Medical Prostheses Medicine Medical Med	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86. 8, 86; 11,
Measurement or tryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medical tryostheses Memory storage Mentor O&O Inc. Metal loiding Metal-organic chemical vapor deposition Metal oxide semiconductor Ischnology Metal vapor deposition Methanol-fueled transit bus Methad calibration Methods-development Methods-development Methods-development Methods-development Microballoon-cable combinations Microballoon-cable combinations Microballoon-cable combinations	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86; 11, 134. 9, 39.
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Vibration Medical Imaging system Medical prostheses Medicine Medical Prostheses Medicine Medical Prostheses Medicine Medical Med	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86; 11, 9, 39. 4, 114.
Measurement of the Sun Measurements of the Sun Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical prostheses Medical meging system Medical prostheses Medical Membrane switch keyboards Memory storage Mentior O&O Inc. Metalliciting Metal-organic chemical vapor deposition Metal-organic chemical vapor deposition Metal-organic chemical vapor deposition Metal-organic Medical Oxide semiconductor technology Metal-organic August Metal vapor deposition Methanol-fueled transit bus Method calibration Methods-development 4, 116; Microballoon-cable combinations Microbero column Micromeritics Instruments Copy Microsecond-resolution radiation	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 98. 5, 6, 60. 36, 9, 84. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86; 11, 134. 9, 39. 4, 114. 10, 76.
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Vibration Medical Imaging system Medical prostheses Medicine Medical Prostheses Medicine Medical Prostheses Medicine Medical Med	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 98. 5, 6, 60. 36, 9, 84. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86; 11, 134. 9, 39. 4, 114. 10, 76.
Measurement of the Sun Measurements of the Sun Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical prostheses Medical prostheses Medical Medica	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 98. 5, 6, 60. 36, 9, 84. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86; 11, 134. 9, 39. 4, 114. 10, 76.
Measurement or tryorogen cyanice Measurement of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medical medical prostheses Medical Membrane switch keyboards Membrane switch keyboards Membrane switch keyboards Membrane switch keyboards Memory storage Mentor O&O Inc. Medical control of the Memory storage Mentor O&O Inc. Medical control of the Memory storage Mentor O&O Inc. Medical control of the Medical control of the Medical control of the Memory Storage Mentor O&O Inc. Medical control of the	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 65. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86. 41; 9, 81. 10, 76.
Measurement or tryorogen cyanice Measurement of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medical medical prostheses Medical Membrane switch keyboards Membrane switch keyboards Membrane switch keyboards Membrane switch keyboards Memory storage Mentor O&O Inc. Medical control of the Memory storage Mentor O&O Inc. Medical control of the Memory storage Mentor O&O Inc. Medical control of the Medical control of the Medical control of the Memory Storage Mentor O&O Inc. Medical control of the	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 36; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 8, 86; 11, 134. 14, 9, 39. 4, 114. 10, 76. 10, 119. 10, 115.
Measurement of the Sun Measurements of the Sun Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical prostheses Medical prostheses Medical Medica	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 65. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 12, 36. 10, 110, 10, 115. 10, 115. 10, 116. 10, 116. 10, 116. 10, 116. 10, 116. 10, 116.
Measurement of the Sun Measurements of the Sun Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical prostheses Medical prostheses Medical Medica	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 85. 6, 60. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 95; 8, 66. 41; 9, 81. 3, 43, 53. 12, 35. 8, 86; 13. 9, 39. 4, 114. 10, 116. 10, 119. 10, 115. 10, 168. 5, 46.
Measurement or five Sun Measurements of the Sun Measurement or five Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical prostheses Medical prostheses Medical Medical five Memory storage Mentior O&O line. Medical five Medical five Medical five Medical five Service Medical five Medical five Service Medical five Medical five Service Medical five Medical five Medical five Medical five Service Medical five Medical five Medical five Medical five Medical five Service Medical five	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 65. 36; 9, 94. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 11, 9, 81. 3, 12, 35. 8, 86. 41; 9, 81. 3, 12, 35. 8, 86. 8, 86; 11, 134. 10, 16. 10, 119. 10, 119. 10, 116. 1
Measurement or tryorogen cyanice Measurement of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medical from Medical prostheses Medicine Medical Med	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89, 8, 66. 41; 9, 81. 3, 43, 53. 12, 36. 8, 86: 134. 9, 134. 10, 115. 110, 115. 110, 68. 6, 44. 5, 3, 3, 10, 88. 6, 44. 5, 3, 10, 88.
Measurement or tryorogen cyanice Measurement of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medical medical prostheses Medical Medical imaging system Medical prostheses Medicaring Membrane switch keyboards Membrane switch keyboards Memory storage Membrane switch keyboards Memory storage Medical medic	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 65. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 11, 40. 89; 8, 66. 41; 9, 81. 13, 42, 35. 8, 86. 41; 9, 81. 10, 119. 10, 115. 10, 16. 10, 19. 10, 119. 10, 119. 10, 119. 10, 119. 10, 119. 10, 15. 10, 64. 4, 44. 5, 3. 10, 88. 41, 60.
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Vibration Medical Imaging system Medical prostheses Medicine Medical prostheses Medicine Medical prostheses Medicine Medical Med	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 85. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89, 86. 13, 43, 53. 12, 35. 8, 86. 13, 43, 53. 12, 35. 8, 86. 141, 9, 81. 10, 176. 110, 186. 5, 46. 4, 114. 5, 3, 3, 10, 88. 5, 46. 4, 114. 5, 3, 10, 88. 5, 46. 4, 114. 5, 3, 10, 88. 5, 46. 4, 114. 5, 3, 10, 88. 5, 46. 4, 114. 5, 3, 10, 88. 5, 46. 4, 114. 5, 3, 20. 3, 85. 4, 114. 5, 3, 20. 3, 85. 4, 114. 5, 34.
Measurements of the Sun Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Mesiscine 4, 2 Medicarty 7, Mellen Co. Inc. Medical Co. Inc. Medical Membrane switch keyboards Membrane switch keyboards Membrane switch keyboards Memory storage Mentor O&O Inc. Medical Co. Inc. Med	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 65. 36; 9, 94. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 11, 40. 89; 8, 66. 41; 9, 81. 3, 12, 35. 8, 86. 41; 9, 81. 3, 12, 35. 8, 86. 8, 86; 11, 134. 10, 76. 10, 119. 10, 119. 10, 116. 10, 115. 10, 14. 5, 3. 10, 88. 6, 46. 4, 14, 64. 4, 5, 3. 10, 88. 10, 88. 10, 10, 119. 10, 118. 10, 119. 10, 119. 10, 118. 10, 119. 10,
Measurements of the Sun Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Mesiscine 4, 2 Medicarty 7, Mellen Co. Inc. Medical Co. Inc. Medical Membrane switch keyboards Membrane switch keyboards Membrane switch keyboards Memory storage Mentor O&O Inc. Medical Co. Inc. Med	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 6, 60. 86, 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 10, 182. 11, 112. 6, 109. 9, 54. 11, 112. 6, 109. 10, 18. 11, 40. 11
Measurement of the Sun Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical imaging system Medical for the Medical for Medical Membrane switch keyboards Memory storage Mentor O&O Inc. Medical Grant Medical Code Semiconductor Rechnology 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 65. 66. 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 11, 40. 89; 8, 66. 41; 9, 81. 3, 12, 35. 8, 86. 41; 9, 81. 3, 12, 35. 8, 86. 8, 86; 11, 134. 10, 76. 10, 119. 10, 115. 10, 116. 110, 115. 10, 14. 5, 3. 10, 88. 6, 46. 4, 14, 64. 4, 5, 3. 10, 88. 5, 46. 4, 11, 64. 4, 5, 3. 10, 88. 5, 46. 4, 11, 64. 5, 3. 10, 88. 5, 46. 4, 11, 64. 5, 3. 10, 88. 5, 46. 5, 46. 5, 3. 10, 88. 6, 46. 5, 46. 6, 46
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medical Medi	10, 96. 10, 196. 10, 198. 8, 98. 5, 85. 10, 132. 11, 112. 6, 109. 9, 54. 10, 88. 12, 40. 89. 8, 66. 13, 43. 12, 36. 8, 86. 141, 9, 86. 10, 115. 10, 115. 110, 115. 110, 115. 110, 115. 110, 186. 110, 188. 110
Measurement or the Sun Measurements of the Sun Measurement or the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical Co. Inc. Medical Membrane switch keyboards Membrane switch keyboards Membrane switch keyboards Memory storage Mentor O&O Inc. Medical Membrane switch keyboards Memory storage Mentor O&O Inc. Medical Memory storage Mentor O&O Inc. Memory storage Memory Metal Vapor deposition Methanol-tueled transit bus Methad calibration Methanol-tueled transit bus Methad calibration Methanol-tueled transit bus Methad calibration Methadocal Memory M	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 65. 66. 67. 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 11, 40. 89; 8, 66. 41; 9, 81. 3, 12, 35. 8, 86. 41; 9, 81. 3, 12, 35. 8, 86. 8, 86; 11, 134. 10, 76. 10, 119. 10, 119. 10, 119. 10, 119. 10, 119. 10, 18
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medical Medi	10, 96. 10, 196. 10, 198. 8, 98. 5, 85. 86, 98. 467; 9, 94. 11, 112. 6, 10, 192. 11, 112. 6, 10, 192. 11, 112. 10, 193. 12, 35. 12, 35. 12, 35. 12, 35. 12, 35. 12, 35. 11, 19, 19, 19, 19, 19, 19, 19, 19, 19,
Measurement or tryorogen cyanice Measurement of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical imaging system Medical Co. Inc. Medical Co. Inc. Medical Co. Inc. Memory storage Mentor O&O Inc. Memory storage Mentor O&O Inc. Memory storage Mentor O&O Inc. Medical Co. Inc. Me	10, 96. 10, 196. 10, 198. 8, 98. 5, 85. 86, 98. 467; 9, 94. 11, 112. 6, 10, 192. 11, 112. 6, 10, 192. 11, 112. 10, 193. 12, 35. 12, 35. 12, 35. 12, 35. 12, 35. 12, 35. 11, 19, 19, 19, 19, 19, 19, 19, 19, 19,
Measurement or hyprocen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medical Medi	10, 96. 10, 196. 10, 198. 8, 98. 5, 85. 86, 98. 467; 9, 94. 11, 112. 6, 10, 192. 11, 112. 6, 10, 192. 11, 112. 10, 193. 12, 35. 12, 35. 12, 35. 12, 35. 12, 35. 12, 35. 11, 19, 19, 19, 19, 19, 19, 19, 19, 19,
Measurement of tryprogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Mesicine 4, 7, Mellen Co. Inc. Medicology 7, Mellen Co. Inc. Medicology 7, Mellen Co. Inc. Methodoxide Memorate switch keyboards Memorate switch keyboards Memorate Storage Mentor O&O Inc. Methodoxide Semiconductor technology 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 65. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 11, 98. 12, 40. 89; 8, 66. 41; 9, 81. 3, 42, 35. 8, 86. 41; 9, 81. 10, 119. 10, 115. 10, 116. 10, 116. 10, 116. 10, 116. 10, 116. 10, 118. 10, 18. 10, 18. 10, 18. 10, 18. 10, 18. 10, 18. 10, 18. 10, 18. 10, 18. 10, 18. 10, 18. 11, 64. 4, 11, 60. 3, 522. 3, 85. 1, 77. 10, 88. 9, 84. 7, 33. 9, 42. 10, 100. 3, 130. 3, 130.
Measurement or typrocean cyanice Measurement of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medical Medi	10, 96. 10, 196. 10, 198. 8, 98. 5, 85. 10, 132. 11, 112. 6, 109. 9, 54. 11, 12. 89; 8, 66. 12, 40. 89; 8, 66. 13, 43, 53. 12, 35. 8, 86: 14, 40. 10, 115. 11, 115. 116, 115. 117. 117. 117. 117. 117. 117. 117.
Measurement or five Sun Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical Membrane switch keyboards Membrane switch keyboards Memory storage Mentor O&O Inc. Metalliding Metal-organic chemical vapor deposition 1, Metalloriding Metal-organic chemical vapor deposition 1, Metalloriding 1, Metallor	10, 96. 10, 196. 10, 198. 8, 98. 5, 85. 10, 132. 11, 112. 6, 109. 9, 54. 11, 12. 89; 8, 66. 12, 40. 89; 8, 66. 13, 43, 53. 12, 35. 8, 86: 14, 40. 10, 115. 11, 115. 116, 115. 117. 117. 117. 117. 117. 117. 117.
Measurement or tryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Medicine Medical prostheses Medicine Medical Med	10, 96. 10, 196. 10, 198. 8, 98. 5, 85. 10, 132. 11, 112. 6, 109. 9, 54. 10, 182. 11, 112. 6, 109. 9, 54. 10, 182. 11, 112. 6, 109. 9, 54. 10, 182. 11, 112. 10, 199. 10, 115. 110, 14. 10, 199. 10, 115. 110, 14. 10, 199. 10, 115. 110, 14. 110, 199. 110, 115. 110, 14. 110, 199. 110, 110, 199. 110, 110, 110, 110, 110, 110, 110, 110,
Messurement or the Sun Messurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical vibration Medical imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical Membrane switch keyboards Membrane switch keyboards Memory storage Mentor O&O Inc. Metalliding Metal-organic chemical vapor deposition 1, Metalloriding Metal-organic chemical vapor deposition Metalloriding 3, 1, Metalliding Metal-organic chemical vapor deposition Metalloriding 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	10, 96. 10, 136. 5, 92. 10, 108. 8, 98. 5, 85. 5, 65. 36; 9, 84. 47; 9, 94. 10, 132. 11, 112. 6, 109. 9, 54. 11, 98. 12, 40. 89; 8, 66. 41; 9, 81. 13, 42, 35. 8, 86. 41; 9, 81. 10, 119. 10, 119. 10, 115. 10, 14. 10, 16. 4, 14. 4, 5, 3. 10, 88. 4, 11, 60. 3, 52. 3, 85. 1, 77. 10, 88. 9, 84. 7, 33. 9, 42. 10, 100. 3, 130. 3, 1
Measurement or tryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical Vibration Medical Imaging system Medical prostheses Medicine Medical prostheses Medicine Medical Med	10, 96. 10, 196. 10, 196. 10, 198. 8, 98. 5, 85. 10, 132. 11, 112. 6, 109. 9, 54. 11, 112. 89; 8, 66. 12, 40. 89; 8, 68. 12, 40. 89; 8, 68. 11, 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 11, 74. 11, 11, 11, 11, 11, 11, 11, 11, 11, 11,
Messurement or fire Sun Messurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical Vibration Medical Imaging system Medical prostheses Mesiscine 4, 7, Mellen Co. Inc. Medical Co. Inc. Medical Membrane switch keyboards Membrane switch keyboards Membrane switch keyboards Memory storage Mentor O&O Inc. Metalloling Metal-organic chemical vapor deposition 1, Metalloling Metal-organic chemical vapor deposition 1, Metalloling Metal-organic chemical vapor deposition 1, Metalloling Metal-organic chemical vapor deposition Metalloling Mediling system Mold cooling analysis program Mold cooling time Molding cycle Molecular beam epitaxy Medeling saystem Mold cooling time Molding cycle Molecular beam epitaxy Molecular beam epitaxy Molecular Demonstructure Mediling Mediling saystem Molecular beam epitaxy Molecular Demonstructure Mediling Mediling Mediling saystem Molecular beam epitaxy Medeling Mediling Me	10, 196. 10, 196. 10, 196. 8, 98. 5, 85. 5, 98.4. 47; 9, 94. 10, 192. 11, 112. 6, 109. 9, 54. 11, 40. 89; 8, 66. 41; 9, 81. 3, 12, 35. 8, 86. 41; 9, 81. 3, 14, 15. 10, 116. 10, 116. 10, 116. 10, 118. 10, 118. 10, 118. 10, 118. 10, 118. 11, 64. 4, 14, 14. 10, 16. 11, 16. 11, 16. 11, 16. 11, 16. 11, 17. 11, 17. 11, 18. 11, 19. 11, 19. 11, 19. 11, 11, 11. 11,
Measurement or tryorogen cyanice Measurements of the Sun Mechanical Technology Inc. Mechanical Technology Inc. Mechanical Vibration Medical Imaging system Medical prostheses Medicine Medical prostheses Medicine Medical Med	10, 96. 10, 196. 10, 196. 10, 198. 8, 98. 5, 85. 10, 132. 11, 112. 6, 109. 9, 54. 11, 112. 89; 8, 66. 12, 40. 89; 8, 68. 12, 40. 89; 8, 68. 11, 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 10, 115. 11, 74. 11, 11, 11, 11, 11, 11, 11, 11, 11, 11,

Molecular structure of antibodies 9, 42. Molecular weight distribution 6, 104. Molten magma 5, 201.
Molten metal cooling curve 11, 112.
Monetary eychange rates 11 02
Monochromatic light 11, 106.
Monoclonal antibody 8, 79. Monolayer phase changes 4, 56. Monsanto Co. 10, 112.
Monster star 4, 51.
Moon 6, 76: 9, 64, 208.
Moon's shadow 5, 92; 6, 72. Motion sickness 1, 43. Motorized cars 7, 95. Mount St. Holono
Mount St. Helens 2, 17. Multichannel infrared radiometer 5, 78.
Middlebaseal sealer 5 100
Multi-dimensional numerical matrix 7, 72. Multidisciplinary space 3, 121. Multilateral export control policy 7, 46.
Multi-legged robot 5, 37.
Multiplet patterns 11, 93. Multisolvent methodology 4, 119.
Multistage pumps 4, 142. Multistatic radars 2, 53.
Multiwire proportional counter 5, 82. Multizone furnace 10, 132.
Mythology 4, 17.
NASA Goddard Space Flight Center
NASA Langley Research Center
10, 123, 124. NASA Lewis Research Center 10, 100.
103, 108, 132. National Bureau of Standards 10, 119,
National Electrostatics Corp. 10, 131. National Medal of Technology 10, 11, 47.
Neuroscience 5, 62.
Neutrino detection system 7, 64. Neutrino interactions 3, 86.
Neutron activation 3, 193. Neutron imaging detector 10, 115. Neutron control 2, 98
Neutron scattering research Neutron stars 2, 88. Neutron stars 3, 92; 5, 204.
Newport Corp. 10, 107. Newsletter service 6, 39. Nickel cadmium batteries 4, 70.
Nickel-chromium-molybdenum
compositions 7, 82. Nickel-copper alloy coating 10, 124. Nickel electrodes 4, 70.
Nickel hydrogen battery cells 4, 70
Nickel-zinc battery 5, 66. NIFE aluminide 10, 124.
Niobium-titanium conductor 7, 33. Niobium-titanium rotor windings 8, 56.
Nitinal wire 5, 37. Nitride synthesis 4, 90.
Nobel Prize 7 124: 9 40 72: 11 49 90
rionabsorbing mirrors 5, 71.
Nonasbestos materials 7, 89. Noncontacting suction force generator 10, 123.
Noncrimping carbon woven fabric 9, 76.
Nonelectronic hearing aid 3, 44. North American Philips Corp. 10, 123, 139. Nuclear accidents 1, 37; 3, 193; 9, 39. Nuclear breeder 2, 39.
Nuclear breeder 2, 39. Nuclear burnup 12, 46.
Nuclear force 3, 86; 5, 52.
Nuclear magnetic resonance 6, 62; 10, 3, 143; 11, 90.
Nuclear power plant 1, 41; 9, 39; 10, 35;
Nuclear precession 11, 94. Nuclear war 3, 193; 4, 182; 6, 11; 8, 161.
Nuclear waste storage 7, 60.
Nuclear weapons 4, 182; 6, 11. Nucleation barrier 11, 114.
-0-
Oak Ridge National Laboratory 10, 84.
Offshore oil 7, 56.
Oil production platform 1, 60.
One-discrete-element photosensitive
detector 4, 72 On-line vacuum process measurements 10, 167
O'Neill, Dr. Hugh 2, 46 "Open system" analyses 8, 161
- 1

Optical/holographic techniques Optical video-disk system Optical video-disk system Optical cornic devices Optrode Oral biomaterials evaluation Orbital transfer technology Orbital transfer vehicle (OTV) Orbiting manufacturing facility Orbiting space station Orbiting space station Orbiting space station Orbiting telescope Origin of the universe Orion Research inc. Outer atomic layers Ownership interest Daide defects Daide defects Oxidizing atmospheres Oxygen production	4, 49. 6, 71. 6, 76.
_P_	
PPG Industries pH measurement Pacemaker monitoring device Packed hollow fibers Palaga B Palladium diffusion cell Particle beam fusion accelerator Particle physics 7, 95 Passevis policiation s Patent applications Patent fusion accelerator Particle beam fusion accelerator Patent fusion accelerator Particle beam fusion accelerator Particle	4, 36. 2, 172. 5, 203. 8, 29. 5, 137. 5, 111.
Patent law 4, 29; 5, 29, 20	4; 9, 31.
Patent licenses Patent litigation Patent policy Patent protection Patent rights Patentability Patents 3, 25, 110, 190; 5, 1 7, 27; 9,	2, 31. 3, 31. 36, 203;
Pattern fidelity	8, 115.
Pauling, Linus Peak electric demand Peak elution time Pebble bed Pennsylvania State Univ. Performance-based reward system Permanent magnet dc motor Personal computer business Personnel policies Personnel policies Personnel ramsfer capsule Perspiration scalding Phase conjugate optic techniques	3, 37. 2, 131. 12, 46. 10, 140. 18 9, 48. 10, 35. 5, 23. 9, 48. 7, 56. 6, 35.
Phase grating Phosphine Phosphoric acid fuel cells Phosphorus-26 Photochemical process Photochemical vapor deposition	9, 112. 9, 81. 12, 66. 5, 52. 8, 68.
Photocopier	10, 136. 6, 65. 7, 47.
Photocopying guidelines Photodiode Photodissociation	12, 35.
Photodissociation Photoelectron energy Photographic wastes Photoionization	9, 155. 2, 44.
Photolithography 8, 68	
Photomacroscopy Photovoltaic solar cell	2, 108. 1, 48.
Photovoltaic technology Pilot thyristor	
Pioneer 10	9, 54. 5, 74.
Pipeline plow Piracy of computer data Pittsburgh Conference on Analytic Chemistry & Applied Spectrosco 2, 115; 4, 11; 5, 43; 7, 68	i: 12, 39.
Planetary atmosphere	10, 156.
Planetary exploration program Planetary nebula	7, 50. 9, 74.
Planetary Observer spacecraft Plasma separation 16	7, 50. 1, 63, 88.
Plasmids Plastics processing equipment	8, 77.
Plate tectonics Platelet-shaped particle	2, 64. 7, 77.
Pluto Plutonium fuel	1, 42.
Plutonium plasma	12, 45. 10, 63.
Polarization of XUV output	7, 54.
Police power Policy review committees	1, 11.
Pollutants 1, 47	
Polymerization	11, 54.
Polyacetal-elastomer alloys Polyacrylonitrile precursor fibers Polycrystalline SiC	9. 76.
Polycrystalline SiC Polycrystalline structure Polyetherimide	9, 150. 9, 58.
Polyetherimide Polymer permeability	6, 98. 2, 80.
, , , , , , , , , , , , , , , , , , , ,	



# Index to Volume 25 (1983) of IR&D

	ns 4, 102.
Polysilicon Polytech Co.	9, 81. 10, 92.
Polyurethanes Polyvinyl chloride sandwich shee	6, 96.
Portable field shelter	11, 60.
Position and orientation measurement	10, 95.
Position-senstive scintillation detector	1, 84.
Positron-pi meson mechanism	3, 86. 4, 90.
Post-reaction combustion Potable water	-3, 72.
Potential acuity meter Poverty	10, 88.
Power capacitor test apparatus Power of government	9, 92. 10, 115. 4, 187.
Power semiconductor switch	
Power shift transmission Power supply 10, 68; 1	7, 90. 1, 66, 108.
Power thyristors Precipitation hardening	9, 54. 11, 112. 1, 39.
Precollege education	9, 54. 11, 112. 1, 39. 8, 109.
Preferential sputtering Prepackaged problem-solver	8, 109.
programs Pressure differential	4, 129. 4, 139.
Prevulcanization inhibitor (PVI)	3, 44. 9, 40.
Priestly Medal 1984 Primordial gas	4, 98
Printed circuit board material Prior art 8, 29; 10,	10, 112. 31; 12, 29.
Prism liquid cell Prismatic panel	10, 84. 2, 43.
Private initiative	11, 50.
Private rocketry enterprises Private sector financing	7, 48. 10, 58.
Probe beam	8, 94. 2, 82; 9, 35.
Process gas chromatography	, ,
(PGC) Process liquid chromatography	6, 102.
(PLC) Process optimization	6, 102. 7, 95.
Process simulators	7, 95.
Process to decontaminate PCB transformers	10, 127.
Processes and systems Product development 1, 25; 4, 1	10, 127.
	0. 25. 148.
Product-liability suits Product quality	5, 136. 6, 104.
Production control Production facilities	6, 104. 6, 71.
Production tools and equipment	10, 132.
Productivity 2, 11; 3, 80; 4, 9, 91;	118, 7, 94; 11, 11, 135.
Productivity growth 4,	187; <b>6</b> , 39. <b>6</b> , 39.
Productivity standards	
Professional communicators	
Professional communicators Professional competence	9, 47. 2, 166.
Professional communicators Professional competence Profit motive Profitability	9, 47. 2, 166.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Project Universe	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35.
Professional communicators Professional competence Profit motive Profit motive Programmable motor Project Universe Properly degradation Properly degradation Properly days	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Project Universe Properly degradation Properly taxes Propfen propulsion	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Project Universe Properly degradation Property taxes Propfan propulsion Proportional counter array Proposal checklist	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Property degradation Property taxes Propfan propulsion Proportional counter array Propose checklist Proprietary information Proporietary information Proprietary orofection	9, 47. 2, 166 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 3, 139. 2, 31; 7, 46. 7, 27.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Property degradation Property taxes Propfan propulsion Proportional counter array Propose checklist Proprietary information Proporietary protection Prosperity Profession Prosperity Profession	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 31, 139. 2, 31, 7, 46. 7, 27. 9, 90. 6, 88.
Professional communicators Professional competence Profit motive Profit motive Programed transfer modes Programmable motor Project Universe Property degradation Property taxes Proplan propulsion Proportional counter array Proposal checklist Proprietary information Proprietary protection Prosperity Protocol software Protocol	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 3, 139. 2, 31; 7, 46. 7, 27. 9, 90. 6, 88. 3, 85; 5, 52. arch 3, 64:
Professional communicators Professional competence Profit motive Profit motive Programmed transfer modes Programmable motor Property degradation Property taxes Proplan propulsion Proposal checklist Proprietary information Proporetary information Proprietary protection Prosperity Profit of Proposal checklist Proprietary protection Prosperity Protocol software Proton Proton-antiproton collision reservants	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 3, 139. 2, 31; 7, 46. 7, 27. 9, 90. 6, 88. 3, 85; 5, 52. arch 3, 64;
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Project Universe Properly degradation Property taxes Proplan propulsion Proportional counter array Proposal checklist Proprietary information Proprietary protection Prosperity Protocol software Proton beams Proton beams Proton beams	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 3, 139. 2, 31; 7, 46. 7, 27. 9, 90. 6, 88. 3, 139. 3, 85; 5, 52. arch 3, 64; 9, 50. 3, 85.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Property degradation Property degradation Property taxes Propfan propulsion Proportional counter array Proposal checklist Proprietary information Proprietary information Proprietary protection Prosperity Protocol software Proton Proton beams Proton beams Proton decay Proton proton collisions	9, 47. 2, 166, 5, 137. 9, 107. 11, 31. 5, 113, 10, 35. 4, 74. 9, 76. 9, 203. 11, 83. 12, 58. 3, 139. 2, 31; 7, 47. 9, 90. 6, 88. 3, 68; 5, 52. 4, 49, 9, 50. 3, 85; 5, 52.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Property degradation Property degradation Property taxes Propfan propulsion Proportional counter array Proposal checklist Proprietary information Proprietary information Proprietary protection Prosperity Protoon Software Proton Proton beams Proton beams Proton spectrum Proton spectrum Proton spectrum Protons sections	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 5, 113. 5, 13. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 2, 31: 7, 27. 9, 90. 6, 88. 3, 85: 5, 52. arch 3, 49. 9, 49. 9, 49.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Property degradation Property degradation Property taxes Propfan propulsion Proportional counter array Proposal checklist Proprietary information Proprietary information Proprietary protection Prosperity Protocol software Proton Proton decay Proton beams Proton beams Proton spectrum Protonsarior Protostars Protinity exposure effects	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 3, 139. 2, 31: 7, 46. 9, 50. 3, 85. 5, 52. arch 3, 64. 9, 50. 3, 85. 5, 52. 47. 11, 92. 74. 11, 92.
Professional communicators  Professional competence  Profit motive  Profit motive  Profit motive  Profit motive  Profit motive  Profit motive  Programed transfer modes  Programmable motor  Property degradation  Property taxes  Proplan propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proprietary protection  Prosperity  Protocol software  Proton  Proton - antiproton collision rese   Proton beams  Proton beams  Proton spectrum  Protonated carbons  Protostars  Proximity exposure effects  Pseudogravitational field  Pseudoplastic flow  Proseudoplastic flow  Proseudoplastic flow  Proseudoplastic flow  Proseudoplastic flow  Proseudoplastic flow  Pseudoplastic flow  Pseudoplastic flow  Proseudoplastic flow  Proseudoplast	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 12, 58. 9, 49. 9, 50. 3, 85; 5, 52. arch 3, 64; 9, 49. 9, 50. 3, 85; 5, 52. arch 3, 64; 9, 49. 9, 10. 2, 11, 92. 4, 97. 4, 97.
Professional communicators Professional competence Profit motive Profitability Programed transfer modes Programmable motor Project Universe Properly degradation Properly taxes Proplan propulsion Proportional counter array Proposal checklist Proprietary information Proprietary protection Prosperity Protocol software Proton Proton beams Proton beams Proton spectrum Protonated carbons Protonated carbons Protonated carbons Protonated Prot	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 12, 58. 9, 49. 9, 50. 3, 85; 5, 52. arch 3, 64; 9, 49. 9, 50. 3, 85; 5, 52. arch 3, 64; 9, 49. 9, 10. 2, 11, 92. 4, 97. 4, 97.
Professional communicators  Professional competence  Profit motive  Profit motive  Profitability  Programed transfer modes  Programmable motor  Project Universe  Properly degradation  Properly taxes  Proplan propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proprietary protection  Prosperity  Protocol software  Proton  Proton beams  Proton decay  Proton decay  Proton decay  Proton  P	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 3, 139. 2, 31; 7, 46. 9, 49. 3, 85; 5, 52. arch 3, 64; 9, 49. 11, 92. 4, 97. 7, 77. 7, 78. 9, 200. 3, 85; 9, 49. 11, 92. 4, 97. 7, 77. 8, 90. 9, 49. 11, 92. 11,
Professional communicators  Professional competence  Profit motive  Profit motive  Programmable motor  Project Universe  Properly degradation  Properly taxes  Proplan propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proprietary protection  Prosperity  Protocol software  Proton  Proton - antiproton collision  Proton - antiproton collision  Proton - antiproton collision  Proton - antiproton  Proton - antiprot	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 3, 139. 2, 31; 7, 46. 9, 49. 9, 49. 11, 92. 2, 36. 3, 85; 5, 52. 2, 66. 3, 86; 9, 49. 11, 92. 4, 97. 7, 78. 9, 200. 3, 85; 9, 49. 11, 92. 4, 97. 7, 78. 9, 206. 11, 92. 11, 93. 11, 92. 1
Professional communicators  Professional competence  Profit motive  Profitability  Programed transfer modes  Programmable motor  Project Universe  Proptany degradation  Properly taxes  Proptany propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proprietary protection  Prosperity  Protocol software  Proton  Proton -antiproton collision  Proton decay  Proton obecamy  Proton spectrum  Proton spectrum  Protonated carbons  Protonated  Proton spectrum  Protonated  Proton spectrum  Protonated  Proton spectrum  Protonated  Proton spectrum  Protonated  Proton  Protonated  Proton  Protonated  Proton  Protonated  Proton  Protonated  Proton  Protonated  Proto	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 56. 9, 49. 3, 85: 5, 52. 2 arch 3, 64; 9, 49. 11, 92. 4, 74: 11, 60. 1, 47. 7, 77. 9, 90. 1, 47. 9, 90. 1, 47. 9, 90. 1, 47. 9, 90. 1, 47. 9, 90. 1, 47. 9, 90. 1, 47. 1, 47. 9, 90. 1, 47. 1, 47. 9, 90. 1, 47. 1, 47. 1, 47. 1, 54: 11, 64. 4, 80: 7, 37.
Professional communicators  Professional competence  Profit motive  Profitability  Programed transfer modes  Programmable motor  Project Universe  Proptary degradation  Properly taxes  Proptary degradation  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proprietary protection  Prosperity  Protocol software  Proton  Proton - antiproton collision rese   Proton beams  Proton decay  Proton-proton collisions  Proton spectrum  Protonated carbons  Protostars  Pr	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 2, 31; 7, 46. 9, 9, 30. 3, 85; 5, 52. arch 3, 64; 9, 49. 9, 50. 3, 85; 9, 49. 11, 92. 7, 77, 78. 9, 20. 1, 11, 64. 1, 54; 11, 64. 4, 80; 7, 37.
Professional communicators  Professional competence  Profit motive  Profitability  Programed transfer modes  Programmable motor  Project Universe  Proplary degradation  Properly taxes  Proplary degradation  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proprietary protection  Prosperity  Protocol software  Proton  Proton - antiproton collision rese  Proton beams  Proton beams  Proton beams  Proton spectrum  Protonated carbons  Protostars  Protostars  Proximity exposure effects  Pseudoplastic flow  Pseudoscientific speculation  Public advareness  Public education  Public advareness  Public education  Public asterty  Pulsar  Pulse thermography  Pulsed nozzie  Pultrusion  Pump limiter	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 12, 58. 9, 49. 3, 85: 5, 52. 3, 85: 5, 52. 4, 74. 11, 60. 9, 12. 4, 97. 11, 164. 6, 58. 9, 49. 11, 82. 4, 97. 11, 164. 6, 168. 6, 168. 9, 49. 11, 164. 9, 12. 11, 164. 9, 13. 11,
Professional communicators  Professional competence  Profit motive  Profitability  Programed transfer modes  Programmable motor  Project Universe  Proptary degradation  Properly taxes  Proptary degradation  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proprietary protection  Prosperity  Protocol software  Proton  Proton - antiproton collision rese   Proton beams  Proton decay  Proton-proton collisions  Proton spectrum  Protonated carbons  Protostars  Protostars  Protostars  Protostars  Proximity exposure effects  Pseudoplastic flow  Pseudoscientific speculation  Public advareness  Public education  Public astery  Pulsar  Pulset thermography  Pulsed-laser light  Pulsed noz.  Pulm  Pulmed  Purchasing activities  Purchasing activities  Push-button telephone	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 12, 58. 9, 49. 9, 50. 3, 85; 5, 52. 4, 74. 11, 92. 4, 97. 7, 78. 9, 92. 4, 97. 7, 77. 11, 64. 8, 92. 11, 92. 6, 58. 8, 94. 9, 92. 11, 92. 12, 92. 12, 92. 13, 92. 14, 92. 14, 92. 15, 92. 16, 93. 16, 93. 16, 93. 16, 93. 16, 93. 17, 92. 18, 92. 18, 92. 19, 92.
Professional communicators  Professional competence  Profit motive  Profitability  Programed transfer modes  Programmable motor  Project Universe  Proptany degradation  Properly taxes  Proptany propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proprietary protection  Prosperity  Protocol software  Proton  Proton -antiproton collisions  Proton decay  Proton observations  Proton spectrum  Protonated carbons  Protonisted  Pro	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 12, 58. 9, 49. 3, 85: 5, 52. 3, 85: 5, 52. 4, 74. 11, 60. 9, 12. 4, 97. 11, 164. 6, 58. 9, 49. 11, 82. 4, 97. 11, 164. 6, 168. 6, 168. 9, 49. 11, 164. 9, 12. 11, 164. 9, 13. 11,
Professional communicators  Professional competence  Profit motive  Profitability  Programed transfer modes  Programmable motor  Project Universe  Proptany degradation  Property taxes  Proptany propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary protection  Prosperity  Protocol software  Proton  Proton -antiproton collision  Proton obecay  Proton obecay  Proton proton collisions  Proton beams  Proton beams  Proton Beach  Proton Proton  Proton spectrum  Protonated carbons  Protonspectrum  Protonated carbons  Protostars  Proximity exposure effects  Pseudogravitational field  Pseudoplastic flow  Pseudoscientific speculation  Public awareness  Public education  Public avareness  Publiced-laser ignit  Pulser  Pump limiter  Purchasing activities  Push-button telephone  Pyroytic boron nitride (PBN)	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 12, 58. 9, 49. 9, 50. 3, 85; 5, 52. 4, 74. 11, 92. 4, 97. 7, 78. 9, 92. 4, 97. 7, 77. 11, 64. 8, 92. 11, 92. 6, 58. 8, 94. 9, 92. 11, 92. 12, 92. 12, 92. 13, 92. 14, 92. 14, 92. 15, 92. 16, 93. 16, 93. 16, 93. 16, 93. 16, 93. 17, 92. 18, 92. 18, 92. 19, 92.
Professional communicators  Professional competence  Profit motive  Profitability  Programed transfer modes  Programmable motor  Project Universe  Proptany degradation  Property taxes  Proptany propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proprietary protection  Prosperity  Proton  Proton - antiproton collision  Proton beams  Proton beams  Proton beams  Proton beams  Proton beard  Proton Proton - antiproton  Proton spectrum  Protonated carbons  Protonstars  Protonstars  Protonity exposure effects  Pseudoplastic flow  Pseudoplastic flow  Pseudoplastic flow  Pseudoscientific speculation  Public awareness  Public education  Public awareness  Publiced-laser light  Pulsed	9, 47. 2, 186. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 2, 31. 7, 46. 9, 12. 3, 48. 9, 50. 3, 85. 5, 52. 3, 64. 9, 12. 7, 7, 78. 9, 206. 1, 47. 7, 78. 9, 206. 1, 47. 9, 91. 1, 92. 11, 9
Professional communicators  Professional competence  Profit motive  Profit motive  Programmable motor  Property degradation  Property degradation  Property taxes  Proptan propulsion  Proportional counter array  Proposal checklist  Proprietary information  Propretary protection  Prosperity  Protocol software  Proton  Proton -antiproton collision  Proton -antiproton collisions  Proton beams  Proton beams  Proton beams  Proton spectrum  Protonated carbons  Protons  Proton spectrum  Protonated carbons  Protonstars  Protonity exposure effects  Pseudogravitational field  Pseudoplastic flow  Pseudoscientific speculation  Public awareness  Public education  Public awareness  Publiced-laser light  Pulsed  Pulse thermography  Pulsed  Purchasing activities  P	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 3, 139. 2, 31; 7, 46. 9, 49. 9, 49. 9, 50. 3, 85; 5, 52. arch 3, 64; 9, 49. 11, 92. 4, 97. 7, 78. 9, 200. 1, 47. 9, 10. 4, 97. 7, 78. 9, 206. 1, 47. 9, 11. 4, 97. 7, 78. 9, 206. 1, 47. 9, 11. 4, 97. 7, 78. 9, 206. 1, 47. 9, 206. 1, 48. 1, 47. 9, 206. 1, 48. 1, 54. 1, 16. 1, 54. 1, 11. 8, 116. 8, 16. 8, 116.
Professional communicators  Professional competence  Profit motive  Profit motive  Profit motive  Programmable motor  Project Universe  Properly degradation  Properly degradation  Properly taxes  Proptan propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proportional counter  Proton  Proton beams  Proton beams  Proton beams  Proton beams  Proton beams  Proton beard  Proton-proton collisions  Proton  Proton-antiproton collisions  Proton  Proton-antiproton  Proton-	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 2, 31; 7, 46. 8, 139. 9, 49. 9, 50. 3, 85; 5, 52. arch 3, 64; 9, 49. 9, 50. 3, 85; 9, 49. 11, 92. 74; 11, 60. 1, 47. 7, 78. 9, 200. 1, 47. 9, 90. 1, 54; 11, 64. 4, 80; 7, 37. 7, 52. 4, 187. 6, 113.
Professional communicators  Professional competence  Profit motive  Profit motive  Profit motive  Programmable motor  Project Universe  Properly degradation  Properly degradation  Properly taxes  Proptan propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proportional counter  Proton  Proton beams  Proton beams  Proton beams  Proton beams  Proton beams  Proton beard  Proton-proton collisions  Proton  Proton-antiproton collisions  Proton  Proton-antiproton  Proton-	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 2, 31; 7, 46. 8, 139. 9, 49. 9, 50. 3, 85; 5, 52. arch 3, 64; 9, 49. 9, 50. 3, 85; 9, 49. 11, 92. 74; 11, 60. 1, 47. 7, 78. 9, 200. 1, 47. 9, 90. 1, 54; 11, 64. 4, 80; 7, 37. 7, 52. 4, 187. 6, 113.
Professional communicators  Professional competence  Profit motive  Profit motive  Profit motive  Programmable motor  Project Universe  Properly degradation  Properly degradation  Properly taxes  Proptan propulsion  Proportional counter array  Proposal checklist  Proprietary information  Proprietary information  Proportional counter  Proton  Proton beams  Proton beams  Proton beams  Proton beams  Proton beams  Proton beard  Proton-proton collisions  Proton  Proton-antiproton collisions  Proton  Proton-antiproton  Proton-	9, 47. 2, 166. 5, 137. 9, 107. 11, 31. 5, 113. 10, 35. 4, 74. 9, 76. 9, 203. 11, 82. 12, 58. 3, 139. 2, 31; 7, 46. 9, 49. 9, 49. 9, 50. 3, 85; 5, 52. arch 3, 64; 9, 49. 11, 92. 4, 97. 7, 78. 9, 200. 1, 47. 9, 10. 4, 97. 7, 78. 9, 206. 1, 47. 9, 11. 4, 97. 7, 78. 9, 206. 1, 47. 9, 11. 4, 97. 7, 78. 9, 206. 1, 47. 9, 206. 1, 48. 1, 47. 9, 206. 1, 48. 1, 54. 1, 16. 1, 54. 1, 11. 8, 116. 8, 16. 8, 116.

Quantum electrodynamics Quantum electronics Quasars 4, 95; 8, 162; 9,	1, 39. 9, 62. 72; 11, 62.
Quasiparticle injection tunneling effect	3.58
Quenching Questar Corp.	7, 85.
Queue maintenance Quiteron	8, 86. 3, 58.
-R-	
R&D effort R&D expenditures 2, 11; 4,	10, 60. 187; 5, 61;
R&D expenditures 2, 11; 4, 9, 40, R&D funding 1, 69; 3, 62; 47,	187; 5, 61; 42; 10, 69. 1, 76; 5, 56; 70; 10, 58. 11, 90.
HaD gold nuggets	11, 90.
R&D laboratories	200; 12, 52. 10, 40. 3, 3; 5, 138. 7, 94.
R&D productivity	7, 94.
R&D proposals	3, 136.
R&D scientists 3, 11; 5, R&D tax credit act	97; 5, 122. 199; 6, 155. 9, 39. 7, 37.
Race track microtron Radial thermal gradients	7, 37. 3, 133. 8, 116.
Radiation damage Radiation detectors	11, 134.
Radiation temperature Radio frequency circuits	5, 78. 10, 144. 10e 3, 127.
Radio frequency (RF) interferer Radio frequency structure	14 00
Radio management system Radiation effects RF shielding	6, 40. 3, 127.
Radio telescope 2, 78; 3, 68; Radioactive decay	4, 54; 9, 72. 5, 52.
Radioactive gems 7, 60; 9	5, 52. 2, 249. 72; 10, 52;
Radioluminescent lights	11, 73. 12, 35.
Radium complexer Railroad business	10, 91. 6, 23.
Raised-relief maps and drawing Ramjet engine	14 66 60
Range prediction device Rapid scan ICR Rapidly rotating residual nuclea	5, 66. 11, 124.
system Rare earth-cobalt magnets	9, 53.
Rare-earth nuclei Reactive ion etching (RIE)	9, 53. 8, 115. 2, 39.
Reactor fuel Reactor safety	12, 46,
Recession 3, 97; 4, 11; 5, Reciprocating magnetic bearing	122; 9, 200.
Reciprocating piston pumps Recognition for inventors 3,	4, 141. 190; 5, 203. 2, 96; 8, 76.
Recombinant DNA Recording beams for holograph lenses	nic.
Recruitment advertising Recycling	9, 111. 12, 35. 6, 74.
Reed switches Refracting telescopes	
Refraction-induced color Refractive index detectors	4, 54.
Refractory nitrides Regression analysis	4, 3, 88. 9, 114.
Regulation of hazardous mater transport	9, 70.
Relativistic electrons Release mechanism	9, 84. 9, 40. 1, 11.
Remote detector Remote fiber fluorimetry Renovation costs	1, 11. 10, 157. 3, 123.
Reproduction of engineered microorganisms	5, 51.
Research & development climate 5,	134; 6, 153.
Research briefings Research center	5, 56. 5, 54.
Research fellowships Research funding 5,	199; 9, 107.
Research Initiations for Minorit Institutions Research parks.	4, 78. 10, 54.
Research reactor Research universities	12 46
Resistance temperature detect Resistance thermometer bridge	e/micro-ohm
meter Resolution map Resource Conservation and R Act Response surface methodolog	10, 120. 4, 119.
Resource Conservation and R	7, 38.
riesponse time	9, 116. 4, 113.
Restriction enzymes Retraining of personnel Retrieving a satellite from orbit	9, 116. 4, 113. 8, 77. 10, 39.
Retrieving a satellite from orbit Retro-reflectors Returns on investment	10, 61.
Return of taxpayer's investme Reverse billowing	40 75
Reverse-osmosis desalination Reversed-phase chromatogra	phy 2, 155;
Rhomboid-shaped unit cells	3, 130.

	NOD	
	Ride, Sally Ring-laser gyro Robot arm Robotics and automation Rocket propulsion Rocking piston pump Rocket International Rocking piston pump Rocket International Rocking piston pump Rocket International Rodiess cylinder Rotal pumps Rotaty screw pumps Rotational behavior of nuclei Rotational speeds Rotational speeds Rotational stress R	9, 64. 4, 72. 9, 64. ; 5, 37; 12, 39. 11, 68. 4, 142. 0, 132. 1, 141. 1, 37. 5, 37. 4, 141. 9, 53. 7, 77. 9, 53. 2, 31. 5, 31. 9, 11. 9, 42.
ı	()	etry 9, 154.
	_S_	7 00
	SAMA Award 1983 SAT scores SSC collider SSC collider Sabbatical programs Safety Safety sample state st	9, 70. 9, 48. 10, 9, 64. 7, 52. 110, 135. 4, 70. 4, 129. 11, 186. 5, 74. 3, 51. 1, 39.
١	Scitex Corp. Ltd.	10, 95
1	Scram jet Seafloor research habitat	11, 68 7, 56
1	Search for extraterrestrial intelligence	3, 68 3, 72
1	Secondary effects	3, 68 3, 72 8, 110 8, 116 9, 155
1	Secondary electrons Secondary-ion extraction efficiency	8, 116 9, 155
1	Secondary ion mass spectroscopy 8, 108; 9, 154 Secondary phases	; 10, 84 11, 112 9, 107 5; 7, 45
۱	Secrecy in research	9, 107
١	Security system 4, 36; 6, 8 Seed money Seismic qualification	9, 11
١	Seismic reflection profiles Seismic waves	8, 100 2, 64 5, 201 3, 92 2, 46 5, 92
١	Selenium-76 Self-diagnostics	3, 92
I	Self-propagating high-temperature	-,
١	synthesis Self-supporting gold foil	4, 88 11, 204
ı	Semi-supporting gold foil Semiconductors 1, 89; 2, 56; 4, 2 9, 84, 128; Semiconductor applications 6, 1	9; 8, 65
I	Semiconductor applications 6, 1	3; 8, 58 9, 3, 82
١	Semiconductor fabrication 2, 14; 7, 95; 8, 115; 9, 3, Semimetallic disc brake pads	81, 126
١	Semi-micro HPLC	7, 90
	Sensitive technology 7, 4 Sensitivity variations	9, 158
1	Sensor system 2, 13 Separation and purification	8, 77
	Separator materials Separator plates	4, 70
	Separator plates Serological reactions Severe service environments	B 40
I	Shale oil Shared space	2, 172 3, 77 3, 120
_		-

Ohann midne	7 70
Shear mixing Shear modulus	/, /6. 4 58
Shear stresses	4, 58. 10, 150.
Sheet metal alloys	12, 72.
Shell game	8, 11.
Shelter	
Shielding	11, 60. 3, 127.
Shock	2. 172: S. 12B. I
Shock fronts	9, 39. 11, 74.
Shock isolation	11, 74.
Shock protection	5, 128.
Shock tests	8, 101.
Shock transmissibility	5, 128.
Shock tube laboratory	4, 49.
Shock wave research	4, 80; 6, 40.
Shoolery, Dr. James N.	10, 3, 143.
Short-term precision	2, 103.
Shuttle communications	7, 48.
Shuttle competitors Shuttle Infrared Telescope F	7, 48.
Shuttle Infrared Telescope F	acility 5, 56.
Shuttle pallet satellite	9, 64.
Shuttle program	6, 50; 7, 48.
SiC crystal growth technique Signal conditioning	9, 148,
Signal conditioning	8, 100; 10, 161.
Signal dilution Silane gas	8, 109.
Silane gas	9, 81.
Silica-based chromatograph	9, 81. 1y 3, 130.
Silicides of metals	3, 144.
Silicon 5, 7	2; 6, 39; 9, 149.
Silicon carbide arresters	4, 123.
Silicon carbide crystal	4, 62.
Silicon carbide fibers	4, 64.
Silicon chip	3. 143: 4. 62
Silicon nitride cutting tools	10, 112.
Silicon semiconductor wafe	rs 6, 114; 9, 81.
Silicones	1, 40, 0, 97.
procedure	3, 193.
procedure Silver recovery processes Silver Yearbook Silylenium ion Simulated certhousire effect	2, 44; 10, 131.
Silver Yearbook	12, 56.
Silylenium ion	6, 40.
Children out a Manue autor	ts 7, 56. 1, 86.
Sine-square-psi technique	1, 86.
Single-mode, evanescent-w	rave
coupler	10, 107.
Single-column ion chromate (SCIC)	ography
(SCIC)	2, 151.
Single-crystal behavior	
Single-crystal fibers	4.44
Single-junction cell	12, 63,
Sintered-bronze friction plan	tes 7, 90.
Sinusoidal resonance	tes 7, 90. 8, 101.
Site problems	5, 103.
6-millionth chemical	5.44
Skilled workers	6, 45.
Skylab missions	
Slip-ri' stepping motor	9, 69. 10, 104. 11, 100.
Slope scaling	11, 100.
Small-particle columns	3, 132.
Small mass measurement	0, 102.
instrument	0.60
Conse particles	9, 69. 1, 47.
Smog particles Smoke	4, 35.
Smokestack industries	7 11
Smoking and renewaking	7, 11. 8, 19.
Smoking and nonsmoking Soak function	8, 19. 4, 124. 3; 7, 124; 9, 91.
Social change 4, 2 Social impact of technologichange	3: 7, 124: 9, 91.
Social impact of technologi	o, r, 164, 8, 61.
change	3, 193.
Social problems	9.92
Social stress	2.188
Software copyrights	2, 188. 10, 66. 8, 85.
Software driver	8, 85.
Software market	
Software package 5,	92; 7, 46; 9, 40; 10, 96.
- Inner passage of	10, 96.
Soil bacteria	
Soil fertility	11, 17,
Solar atmosphere	5, 92.
Solar-beam lighting	2, 43.
Solar cells	. 37. 50: 12. 63
Solar cycle	6, 17.
Solar cycle Solar-diesel power station	5, 51.
Solar eclipse	6, 72.
Solar energy 4. 3	35: 5. 51: 12. 63.
Solar energy 4, 3 Solar radiation	6, 72.
Solar system 1, 42; 5,	74; 7, 50; 9, 74;
	11.60
Solaris	11, 60. 6, 72.
Solid moderated reactor	12, 46.
Solids nuclear magnetic	
Solids nuclear magnetic resonance (NMR)	3, 44.
Solid-state joining	12, 75.
Solid-state reactions	A 111
Solvent extraction process	3, 44. 12, 75. 8, 111. 6, 35.
Solving customer problem	6, 35. 7, 68.
Solving customer problems Sonic fatigue Sound reduction	
Sound reduction	4. 142
Sound waves	4, 68. 4, 142. 8, 35.
Southwest Research Instit	ute 10, 119.
Soviet military threat	6 45
Soviet ecientists	0, 45.
Soviet military threat Soviet scientists Soviet space schedule	9, 86. 6, 54.
Sovuz T-8 enecerate	6, 47; 7, 45. 6, 54; 9, 64, 69. 8, 155; 9, 70, 91.
Soyuz T-8 spacecraft Space 2, 51; 4, 42; Space-borne atmospheric	8, 155; 9, 70, 91.
Space-horne stronghasia	monitories
evetem	T OT
system Space-horne refrigerator	7, 37. 5, 80.
Space-borne refrigerator Space commercialization Space endurance	
Space commercialization	8 71-10 40
	6, 71: 10, 46,
Space endurance	6, 71; 10, 46. 2, 51.
Space factories	6, 71; 10, 46. 2, 51. 6, 71.
Space factories	6, 71; 10, 46. 2, 51. 6, 71. 3, 64.
Space factories Space flight program Space-launching capability	6, 71; 10, 46. 2, 51. 6, 71. 3, 64.
Space factories Space flight program Space-launching capability	6, 71; 10, 46. 2, 51. 6, 71. 3, 64.
Space factores Space flight program Space-launching capabilit Space platform Space requirements	6, 71; 10, 46. 2, 51. 6, 71.



#### **Index to Volum** IR&D

continued

Space shuttle	1, 43; 2, 43; 4 6, 50, 72; 9, 11, 50	64; 10, 46;
Space sickness		1, 43,
Space simulation Space stations	chamber 6, 72, 76; 9,	8, 40,
Space structures		6, 76.
Space telescopes Space wars	3,	64; 10, 47. 7, 124.
Spacecraft steriliz	alion	9, 58.
Spacelab Spallation	6, 71; 9,	89; 11, 50.
Spectra-Physics I	nc.	10, 96,
Spectral absorption	in	4, 99,
Spectral content Spectral dispersion	n	2, 68. 11, 92.
Spectral emission		4. 99.
Spectral features Spectral interfere	nces 2,	11, 92, 133. 100; 9, 157;
Spectral profile Spectrochemical	analysis	
Spectrographic ar	nalysis	11, 132. 11, 51, 112.
Spectron Develop	ment Laborat	
Spent nuclear fue		10, 76. 11, 73.
Spher - small part receiver	icle heat exch	4, 35.
Spin parity		5, 52.
Spin rate Spinning rotor ga	e friction game	4, 56. 10, 161.
Spirit of the fronti	or	
Spoilers Sponsored resea	nch	11, 80.
Spontaneous ma	ignancy	7, 46. 12, 11.
Spontaneous rad	iation	9, 84. 8, 109. 109; 9, 154.
Sputtering anomal Sputtering rate	8,	109; 9, 154.
Stable-isotope lai	beling and	
detection Stainless steel w	elded bellows	3, 44. 5, 149.
Standard of lengt	h	9, 60.
Standard of pater Standard of time	tunomity	3, 31. 9, 60.
Standard platinur	n resistance	
thermometer Standards-setting	conferences	11, 99. 5, 53.
Star Wars solution	n	5, 11; 6, 11.
Stariab project State government		2, 78; 4, 42.
State universities		2, 78; 4, 42. 9, 107. 1, 50. 5, 129. 2, 46.
Static deflections Static electricity		5, 129. 2, 46. 2, 73.
Static interrupter		
Statistical analys Statistical curve	S	12, 91. 9, 115.
Statistically desig	med experime	MRS 7, 94.
Statistics softwar	0	12, 90.
Steady state ope Steam generator		5, 43. 9, 39.
Stellar black hole	0.74	3, 92.
Stellar explosion	3, /1;	12, 58.
Stereomicroscop	86	9, 39. 3, 92. 4, 51; 8, 60. 12, 58. 2, 109.
Stimulated emiss particles	ion or energe	2, 66.
Stirling cycle crys	ogenic	
refrigerator Stock market		10, 135. 2, 241.
Strontium barium	niobate	9, 86,
Storage capacity Straight thinking	of video disk	s 2, 70. 7, 11.
Strained-layer si	perlattices	8, 65.
Strategic materia Strategic planning	its ia and portfolii	10, 63.
management	a pro trom	12, 23,
Strategic plans "Strategy of Exp	erimentation"	3, 137. 7, 94. 11, 74.
Structural dama	38	11, 74.
Straw Hat factor	V	5, 106.
Stray light correct Street lighting	randiti	7, 94. 11, 74. 5, 106. 5, 140. 10, 46. 2, 174. 2, 185.
Stress reversals Stress sources		2, 174. 2, 185.
Structural alloys		
Structural chem Structural comp	stry	12, 74. 10, 144. 8, 35. 7, 88.
Structural integr	itv	
Stuffed basic we Subatomic collis	save yarn	9, 78. 3, 85.
Subatomic parti	cles 3, 92; 6,	11: 7, 62, 66:
		11, 54.
Subduction Submicron tech	nology	2, 64. 2, 56. 9, 72.
Submillimeter a: Subnuclear wor	stronomy	7 66
Subsea manifol	da	7, 66. 9, 42.
Substrate effect Substrate heati	8	10, 148. 8, 120.
Sulfur	W.	6, 39,
Suttur diaxide		8, 48. 8, 48.
Suttur emission Sun	5, 92; 6, 17;	9, 74; 11, 60.
Sunlight		4, 35,
Sunspot activity Super supercor	ducting Collid	2, 66; 6, 17. ler 11, 52.
Supercomputer		1, 46,
Superconductin Superconductin	g accelerator g electronic d	8, 84.
Cupannadustin	g generator	8, 56
Superconductir		6, 56; 9, 49

e 25 (19	183) of
Superconductivity	2, 56; 3, 44, 7, 33;
Superconductor materia	11, 92.
Supercritical-fluid chrom	selograph/mass
spectrometer Supercritical wing	1, 39; 10, 76. 11, 82.
Superdetector	3, 92.
Superfluid helium Superlattice	11, 58. 1, 90.
"Supermarket" concept	3, 121.
Superplastic forming	1; 4, 56, 98; 12, 58. 12, 72.
Super-proton synchrotro	on <b>3,</b> 86.
Support centers for indu technology	10.54
Support for industrial RE Support materials	LD 10, 58.
Suppression chromatog	12, 66. 2, 132. 2, 152; 9, 96. 8, 3, 108; 9, 154. 11, 82.
Supressor column Surface analysis	2, 152; 9, 96. 8, 3, 108; 9, 154. 11, 82. 4, 66; 11, 112.
Surface drag	11, 82.
Surface finishes Surface Science Labora	9, 00, 11, 112.
Surface sensitivity	8, 111.
Surface structure Surface vibrations	8, 109; 9, 154. E. 74
Surge arresters	4, 122.
Surgical tool detection of Survival of civilization	10, 17: 12, 17
Suspension overloading	7, 33.
Swedish R&D Switch matrix system	10.00
Switching mechanisms	6, 108. 5, 120.
Synchronous acquisition Synchrotron radiation	4, 99.
Synthetic separator con	npounds. 4, 70.
—T-	-
Tailor-made devices Tandem quadrupole-MS	8, 65. S/FT-MS 11, 124.
Tape and disk storage :	systems 9, 56.
Taper charger Target nucleus	5, 64.
Target reflectance	10 155
Target thickness Task lighting	11, 142. 2, 187.
Tariff barners	11,02.
Tax credits Tax incentive	5, 136; 9, 39. 5, 54; 10, 60.
Tax legislation	5, 134.
Taxes Teacher contracts	9, 107, 203.
Teacher-training require	9, 107, 203. 7, 47. ements 9, 194. 7, 47.
Teaching profession Teaching reactor	7, 47. 10, 50.
Technical communicati	ons 2, 166; 8, 52.
Technical humanoid Technical information	3, 11. 9, 11.
Technical innovation	10, 54
Technical institutions Technical personnel	9, 93. 12, 35.
Technique for SiC crys	tal growth 10, 132.
Technological goals	5, 11; 6, 11; 7, 124; 9, 62.
Technological innovation	50 4, 187; 5, 53; 5, 90: 10, 45: 11, 95.
Technology jobs	7, 37. 3, 62.
Technology programs Technology Telescope	5, 58
Technology transfer 6,	5, 58. 46, 47; 7, 46; 8, 39, 52, 54; 11, 50. 3, 17; 6, 17. abellites 4, 70; 6, 71
Tectonic activity	3, 17; 6, 17.
Telecommunications st Telecommunications st	
Telephone voting	4, 187.
Telescope 4, 42; Teletext system	7, 38; 9, 72; 11, 56.
Television transmission	9, 40.
Telsat Canada	3, 37. 1, 43.

Superconductor materials 6, 71.	Thickness variations 12, 75.
Supercritical-fluid chromatograph/mass	
spectrometer 1, 39; 10, 76.	Thin film heated glass 10, 92. Thin-film microbatteries 4, 68. Thin-film strain transducer 10, 119. Thin gold foils 6, 155. Third World nations 9, 205.
Supercritical wing 11, 82. Superdetector 3, 92.	Thin-film microbatteries 4, 68. Thin-film strain transducer 10, 119.
Superfluid helium 11, 58, I	Thin gold foils 6, 155. Third World nations 9, 205.
Superlattice 1, 90.	Third World nations 9, 205. Charles A. Thomas/Carrol A. Hochwalt
"Supermarket" concept 3, 121. Supernova 3, 71; 4, 56, 96; 12, 58.	award 3, 44.
Superplastic forming 12, 72.	Thorium high-temperature reactor 12, 46.
Super-proton synchrotron 3, 86.	Three-dimensional graphics 4, 130; 5, 43; 6, 66; 8, 108.
Support centers for industrial technology 10, 54.	Three-dimensional semiconductor devices
Support for industrial R&D 10, 58.	8, 58.
Support materials 12, 66.	Three Mile Island 1, 37; 3, 53; 9, 39. Three-shaft turbine 7, 76.
Supression chromatography 2, 132. Supressor column 2, 152; 9, 96. Surface analysis 8, 3, 108; 9, 154.	Three-shaft turbine 7, 76. Thyratron 11, 41.
Surface analysis 8, 3, 108; 9, 154. Surface drag 11, 82. Surface finishes 4, 66; 11, 112. Surface Science Laboratories Inc. 10, 140.	Thyristor-controlled dc power
Surface drag 11, 82.	supplies 11, 66. Time dilation 8, 162.
Surface finishes 4, 66; 11, 112.	Time dilation 8, 162. Time-frequency multiplexing 3, 37. Time-reversed image 9, 86
Surface sensitivity 8, 111.	Time- reversed image 9, 86.
Surface structure 8, 109; 9, 154.	Time series 9, 114.
Surface vibrations 5, 74. Surge arresters 4, 122.	Time standards 9, 60. Titan Probe/Radar Mapper 7, 52.
Surgical tool detection device 10, 87.	Titan Probe/Radar Mapper 7, 52. Titanium alloys 12, 55.
Survival of civilization 10, 17; 12, 17.	Titanium carbide 12, 66.
Survival of civilization 10, 17; 12, 17. Suspension overloading 7, 33.	Tokamak Fusion Test Reactor (TFTR)
Swedish R&D 7, 72; 8, 54. Switch matrix system 10, 99.	2, 60; 3, 52; 5, 43; 10, 35; 11, 66. Top quark 7, 66.
Switch matrix system 18, 99. Switching mechanisms 6, 108. Synchronous acquisition 5, 120.	Top quark 7, 66. Topographic targets 10, 155. Torch system 1, 3.
Synchronous acquisition 5, 120.	Torch system 1, 3.
Synchrotron radiation 4, 99.	Torch test stations 11, 66.
Synthetic separator compounds. 4, 70.	Tornado formation 3, 76. Torque transmission 5, 149.
-T-	Torsatron 5, 43.
	Toshiba Corp. 10, 135.
Tailor-made devices 8, 65. Tandem quadrupole-MS/FT-MS 11, 124.	Torsatron   5, 43.   Torshiba Corp.   10, 135.   Total eclipse   5, 92.   Total vulnerability   8, 161.
Tape and disk storage systems 9, 56.	Tox Box 4, 82.
Taper charger 5, 64.	Toxic chemicals laboratory 6, 40
Target nucleus 9, 53. Target reflectance 10, 155.	Toxic gases 4, 36. Trace analysis 2, 102.
Target reflectance 10, 155. Target thickness 11, 142.	Trace analysis 2, 102. Trace-element distribution 9, 156.
	Track-and-hold device 2, 162.
Tariff barriers 11, 92.	Tracking and Data Helay Satellile (TDHS)
Taxiff burriers 11, 92. Tax credits 5, 136; 9, 39. Tax incentive 5, 54; 10, 60. Tax legislation 5, 134. Taxes 9, 107, 203.	3, 64; 6, 50; 7, 48; 9, 64. Trade Adjustment Assistance
Tax legislation 5, 134.	Centers 8, 46.
	Trade control agreements 6, 45; 8, 45.
Teacher contracts 7, 47. Teacher-training requirements 9, 194.	Trade fair 7, 68.
Teacher-training requirements 9, 194. Teaching profession 7, 47. Teaching reactor 10, 50.	Trade policies 6, 47. Trade sanctions 7, 45.
Teaching reactor 10, 50.	
Technical communications 2, 166; 8, 52. Technical humanoid 3, 11.	Trademarks 5, 29; 7, 27; 9, 31; 11, 31.
Technical humanoid 3, 11. Technical information 9, 11.	Transfer processes 4 128
Technical innovation 10, 54.	Transfer processes 4, 128. Transfer standards 10, 167.
Technical institutions 9, 93.	Transient reactor test facility 12, 46.
Technical personnel 12, 35. Technique for SiC crystal growth 10, 132.	Transient/waveform recorder 10, 100.
Technological goals 5, 11; 6, 11; 7, 124;	Transistor-transistor logic 2, 161.
9, 62.	Transistor 3, 44. Transistor-transistor logic 2, 161. Transmission electron microscopes 11, 41. Transmission line faults 4, 122.
Technological innovation 4, 187; 5, 53; 9, 90; 10, 45; 11, 95.	Transmission line faults 4, 122. Transnational peace-keeping force 4, 182.
Technology jobs 7, 37.	Transnational peace-keeping force 4, 182. Transparent nylon 6, 98.
Technology programs 3, 62.	Transplutonium actinides 4, 60.
	Transport processes 5, 62.
Technology transfer 6, 46, 47; 7, 46; 8, 39, 52, 54; 11, 50. Tectonic activity 3, 17; 6, 17.	Transportation 5, 62; 6, 23; 7, 23; 8, 46; 9, 203.
Tectonic activity 3, 17; 6, 17.	
I Telecommunications satellites 4, 70; 6, 71.	Transposons 8, 77.
Telephone voting 4, 187.	Transuranic waste assay system 10, 116. Trapped-ion analyzer cell 11, 126.
Telescope 4, 42: 7, 38: 9, 72: 11, 56.	Traveling wave tubes (TWT) & 114
Teletext system 9, 40. Television transmission 3, 37.	Trench isolation 9, 58.
Television transmission 3, 37. Telesat Canada 1, 43.	Trench isolation 9, 58. Trenching techniques 11, 74. Triaxial woven fabric (TWF) 9, 78.
Temperature compensation 2, 155.	
Temperature distribution 4, 51. Temperature sensors 11, 98.	Tricoordinate, positive silicon 8, 39.
Tensile ductility 12, 72.	Trifluoromethane sulfonic acid 12, 66. Trimethylarsine 3, 193.
Tensile loss modulus 3, 105.	Triton 1, 42.
Tensile storage modulus 3, 105.	I iditable, ultrapure strigle-frequency
Tensile strength 6, 114; 9, 76, 11, 114. Tenth Collective Index 7, 33. 10th planet 5, 76.	light 9, 82. Tungsten barrier 3, 141.
10th planet 5, 76.	Tungsten carbide 12, 55.
l erminal-to-nost computer links e, ee.	Tungsten hexafluoride 9, 81.
Terrestrial data 4, 17. Terrestrial ennui 12, 17.	Tungsten inert gas (TIG) welding 6, 35. Tunnel current 5, 72.
Terroriet hombins A 197	Tunneling effect 3, 58; 7, 124; 9, 56.
Test fuel pins 12, 46. Testing regime 10, 149. Tevatron I and II 3, 64; 6, 56; 9, 49; 11, 54. Texas, Univ. of, at Austin 10, 104.	Turbine-engine components 7, 76, 94,
Tevetron   and    3 64-6 56-9 49-11 54	Turbofan engines 11, 82.
Texas, Univ. of, at Austin 10, 104.	20,000th patent awarded 9, 84.
	2020 vision 12, 56.
Thermal agitation of electrons 9, 54.	2020 vision 12, 56. Twin-fuselage aircraft 2, 247. Two-dimensional NMR 11, 94
Thermal analysis curve 11, 114. Thermal barrier coatings 11, 80.	Two-dimensional NMH 11, 94. Two-point calibration 2, 103.
Thermal conductivity 6, 114; 9, 149.	Tylan Corp. 10, 136.
	Typewriter coding 5, 97
Thermal management system 5, 66. Thermal noise 11, 95.	
Thermal power 4, 35.	
Thermal pulse video thermography 6, 58.	UA-1 and UA-2 experiments 3, 86
Thermal shock 6, 113. "Thermite" reactions 4, 88.	Ultrahigh-strength fibers 9, 76 Ultrathin gold foil 3, 43
Thermocouples 11, 98.	Ultra-short laser pulses 10, 61
Thermoforming 12, 74.	Ultrasonic cleaning system 8, 45
Thermographic inspection 6, 58.	Ultrasonic imaging system 10, 76
EVELOPMENT—DECEMBER 1983	

Thermonuclear reactions

1	Ultraviolet (UV) detector 2, 153;	6, 104; 9, 96. 5, 140. 11, 74.
	UV/vis spectrometers 4, 103;	6, 104; 9, 96. 5, 140. 11, 74. 9, 107. 4, 42.
	Underwater pipeline plow	11, 74.
	Undisclosed financial interest	9, 107. 4, 42.
	Unemployed steelworkers Unemployment rates	9, 90.
8, 60.	Uniform regulations	11, 49.
4, 65; 6, 96.	Uniform regulations UK Infrared Telescope (UKIRT)	9, 72.
12, 75. 12, 63.	U.S. balance of trade	7, 11.
10, 92.	U.S. economy 7, 3 U.S. funding practices	7; 9, 11.
	U.S. intelligence community	2, 88.
10, 119.	U.S. national laboratories	9, 47.
10, 119. 6, 155. 9, 205.	U.S. patents 5, 136, 2	01, 203.
Hochwalt	U.S. technology 2, 88; 5, 203; 6, 2	9; 9, 11; 10, 60.
3, 44.	Universal mass	7. 62.
actor 12.46. I	University-industry cooperation	
4, 130; 5, 43; 6, 66; 8, 108.	9, 62	7, 46; 10, 54. 9, 106. 5, 136.
uctor devices	University research	5, 136.
8, 58,	University support Unmanned space station	19 60
7; 3, 53; 9, 39. 7, 76.	Unpressurized paliet	6, 71. 9, 106. 12, 64.
11, 41.	Unrestricted funding	9, 106.
11, 41.	Unshifted once-through synthesis Unskilled labor	12, 64. 9, 92.
11, 66.	Unstable nuclei	9, 53.
	Upper atmosphere	6, 72.
3, 37.	Upper atmosphere of the Sun	5, 92.
9, 86. 9, 114.	Upper Atmospheric Satellite Program	E 50
9, 60.	Uranium	11. 41
7, 52,	Uranium isotopes	10, 63.
12, 55.	Uranus 5, 76	; 9, 206.
	User-computer communication	5, 58. 11, 41. 10, 63. 3; 9, 206. 5, 97. 9, 203. 9, 31.
or (TFTR) 10, 35; 11, 66.	User fees Utility patents	9, 203.
7, 66.	Ounty paterns	9, 203. 9, 31.
7, 66. 10, 155. 1, 3.	V	
11 66		
11, 66. 3, 76. 5, 149. 5, 43.	VAR generator	2, 73. 11, 108. ; 7, 104;
5, 149.	VLSI chip design VLSI technology 3, 141; 5, 89	7, 104:
5, 149. 5, 43. 10, 135. 5, 92. 8, 161. 4, 82.	8, 11	; 7, 104; 5; 9, 54. 5, 149.
5.92	Vacuum diffusion furnace	5; 9, 54. 5, 149. 10, 161. 7, 54. 5, 149. 4, 139.
8, 161.	Vacuum gages 4, 145; Vacuum monochromator	10, 161.
4, 82.	Vacuum pumping systems	5, 149.
	Vacuum pumping systems Vacuum relief valves	
9, 30.	Vacuum target chamber	
2 102		
4, 36. 2, 102. 9, 156.	Vacuum technology	5 72
2, 162,	Vacuum target chamber Vacuum technology Vacuum tunneling Vacuum ultraviolet spectrometer	9, 3. 5, 72. 10, 84.
2, 162. Itellite (TDRS)	Validity of a patent	10, 84.
2, 162. Itellite (TDRS) 50; 7, 48; 9, 64.	Validity of a patent Vanadium-gallium compound	10, 84. 7, 126.
2, 162. Itellite (TDRS) 50; 7, 48; 9, 64.	Vacuum urraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator	10, 84. 7, 126.
2, 162. Itellite (TDRS) 50; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45.	Vacuum unraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector	10, 84. 7, 126. 9, 35. 12, 50. 4, 142.
2, 162. tellite (TDRS) 50; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45. 7, 68.	vacuum unravoet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor-phase erystal growth Vapor-phase soldering	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96.
2, 162. Itellite (TDRS) 50; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45.	Validity of a patent Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaporization	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134.
2, 162. (tellite (TDRS) 50; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45. 7, 68. 6, 47. 7, 45. 7, 27	Vacuum unraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaporization Variable-path cell	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141.
2, 162. tellile (TDRS) 50; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45. 7, 68. 6, 47. 7, 45. 7, 27. 7; 9, 31: 11, 31.	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-galilum compound Van De Graaf accelerator Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaportzation Variable-path cell Variable-wavelength detector	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112.
2, 162. 2, 162. 2, 162. 2, 162. 2, 162. 2, 163. 3, 46. 6, 45; 8, 45. 7, 68. 6, 47. 7, 45. 7, 27. 7; 9, 31; 11, 31. 11, 141.	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaporization Variable-path cell Variable-wavelength detector Varian Assoc. Inc. Vector boson	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86.
2, 162. tellite (TDRS) 0; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45. 7, 68. 7, 45. 7, 45. 7; 9, 31; 11, 31. 11, 141. 4, 128.	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaportzation Variable-path cell Variable-wavelength detector Varian Assoc. Inc. Vector boson Vector DNA molecule	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 8, 77.
2, 162. 2, 162. 30; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45. 7, 68. 6, 47. 7, 45. 7, 27. 7; 9, 31; 11, 31. 11, 141. 4, 128. 10, 167.	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaporization Variable-path cell Variable-wavelength detector Varian Assoc. Inc. Vector boson Vector DNA molecule Vactor inages	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 8, 77.
2, 162. 2, 162. 30; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45. 7, 68. 6, 47. 7, 45. 7, 27. 7; 9, 31; 11, 31. 11, 141. 4, 128. 10, 167.	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaporization Variable-path cell Variable-wavelength detector Varian Assoc. Inc. Vector boson Vector DNA molecule Vactor inages	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 8, 77.
2, 162. 2, 162. 30; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45. 7, 68. 6, 47. 7, 45. 7, 27. 7; 9, 31; 11, 31. 11, 141. 4, 128. 10, 167.	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaporization Variable-watelength detector Varian Assoc. Inc. Vector boson Vector DINA molecule Vector images Vega Velocity of light Venture capital 2,	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 8, 77. 9, 116. 11, 56. 4, 96. 31: 9, 11.
2, 162. 2, 162. 30; 7, 48; 9, 64. 8, 46. 6, 45; 8, 45. 7, 68. 6, 47. 7, 45. 7, 27. 7; 9, 31; 11, 31. 11, 141. 4, 128. 10, 167.	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase crystal growth Vapor-phase crystal gr	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 8, 87. 9, 116. 11, 56. 4, 96.
2, 162, tellile (TDR2), tollile (TDR2), tollil	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase crystal growth Vapor-phase crystal gr	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 8, 87. 9, 116. 11, 56. 4, 96.
2, 162, tellite (TDRS) 101, 7, 48; 9, 64. e   8, 46. 6, 45; 8, 45. e, 6, 47; 7, 45. 7, 27, 11, 141, 128, 10, 107, 12, 46. or 10, 100, 3, 44. 28, 100, 500, 500, 500, 500, 500, 500, 500	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase crystal growth Vapor-phase crystal gr	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 8, 87. 9, 116. 11, 56. 4, 96.
2, 162, tellile (TDR2), tellile (TDR2), tollile (TDR2), tollil	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gallium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase crystal growth Vapor-phase crystal gr	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 8, 87. 9, 116. 11, 56. 4, 96.
2, 162, tellile (TDRS) (10, 7, 48; 9, 64. e 8, 46. 6, 45; 8, 45. 6, 7, 68. 7, 45. 7, 69. 11, 11, 141. 141. 14, 128. (10, 107. 12, 46. or 10, 100. 3, 44. 129. (10, 107. 12, 10, 107. 13, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gaillum compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase crystal growth Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Variable-wavelength detector Varian Assoc. Inc. Vector boson Vector DNA molecule Vector DNA molecul	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 8, 77. 9, 116. 8, 77. 9, 116. 4, 96. 31, 9, 11. 54; 7, 50. 2, 88. 4, 54. 41; 5, 89. 0 5, 56.
2, 162, tellile (TDRS) (10, 7, 48; 9, 64. e 8, 46. 6, 45; 8, 45. 6, 7, 68. 7, 45. 7, 69. 11, 11, 141. 141. 14, 128. (10, 107. 12, 46. or 10, 100. 3, 44. 129. (10, 107. 12, 10, 107. 13, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 107. 14, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gaillium compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaporization Variable-path cell Variable-wavelength detector Varian Assoc. Inc. Vector boson Vector DNA molecule Vector inages Vegia Vesicity of light Venture capital Venture capital Verification of proper shipment Very Large Array (VLA) facility Very-large-scale integration 3, 1 Verification of proper shipment Very-Large scale integration 3, 1 Very-Long Baseline Array of Radi Telescopes Vibration 2, 172; 5, 128, 1	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 14, 112. 10, 128. 3, 86. 8, 77. 9, 116. 11, 56. 4, 96. 31; 9, 11. 34; 7, 50. 2, 88. 4, 54.
2, 162, tellile (TDRS), tollile (TDRS), tollil	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gaillum compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vaporabilion Variable-wavelength detector Varian Assoc. Inc. Vector boson Vector DNA molecule Vector broan Vector DNA molecule Vector broan Vector DNA molecule Vector injunt Very Large Array (VLA) facility Venture capital Venue rader-mapper project 3. Ventication of proper shipment Very Large Array (VLA) facility Veny-large scale integration 3, 1 Very-Long Baseline Array of Radi Telescopes Vibration 2, 172; 5, 128, 1 Vibration table	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 6, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 8, 77. 9, 116. 11, 56. 11, 55. 2, 88. 4, 54. 41; 5, 89. 0 5, 56. 49; 9, 42.
2, 162, tellite (TDRS) (10, 7, 46; 9, 64. e   8, 46. 6, 45; 6, 68. 6, 47; 7, 45. 7; 9, 31; 11, 31, 11, 41, 128. 10, 167. 112, 46. or 10, 100, 3, 44. 22, 161, 41, 129, 100, 100, 100, 100, 100, 100, 100, 10	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gaillum compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase crystal growth Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vector boson Vector DNA molecule Vector DNA	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 8, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 4, 96. 4, 96. 4, 96. 4, 5, 56. 4, 96. 4, 96. 4, 98. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 58. 4, 98. 4, 98.
2, 162, tellile (TDRS), tollile (TDRS), tollil	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gaillum compound Van De Graaf accelerator Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Variable-wavelength detector Varian Assoc. Inc. Vector boson Vector DNA molecule Vector images Vegis Velocity of light Venture capital Venture capital Venture capital Venture Very Large Array (VLA) Identity Very-Long Baseline Array of Radi Telescopes Version Very Large Array (VLA) Identity Very-large-scale integration 3, 1 Very-Long Baseline Array of Radi Telescopes Vibration table Vibration table Vibration table Vibration table Vibration areas Video camera A	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 8, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 4, 96. 4, 96. 4, 96. 4, 5, 56. 4, 96. 4, 96. 4, 98. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 58. 4, 98. 4, 98.
2, 162, tellile (TDRS), tollile (TDRS), tollil	Vacuum ultraviolet spectrometer Validity of a patent Vanadum-gaillum compound Van De Graaf accelerator Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase crystal growth Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Variable-path cell Vector brown Vector DNA molecule	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 8, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 4, 96. 4, 96. 4, 96. 4, 5, 56. 4, 96. 4, 96. 4, 98. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 58. 4, 98. 4, 98.
2, 162, tellile (TDRS), tollile (TDRS), tollil	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gaillum compound Van De Graaf accelerator Vapor ejector Vapor ejector Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Vapor-phase eystal growth Vapor-phase soldering Vapor-phase soldering Vapor-phase soldering Variable-path cell Variable-path cell Vector broken Vector broken Vector DNA molecule Vect	10, 84. 7, 126. 9, 35. 12, 50. 4, 142. 9, 149. 8, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 4, 96. 4, 96. 4, 96. 4, 5, 56. 4, 96. 4, 96. 4, 98. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 54. 4, 58. 4, 98. 4, 98.
2, 162, tellile (TDR2), tellile (TDR2), tollile (TDR2), tollil	Vacuum ultraviolet spectrometer Validity of a patent Vanadium-gaillum compound Van De Graaf accelerator Vapor ejector Vapor-phase crystal growth Vapor-phase soldering Vapor-phase soldering Variable-wavelength detector Varian Assoc. Inc. Vector boson Vector DNA molecule Vector images Vegis Velocity of light Venture capital Venture capital Venture capital Venture Very Large Array (VLA) Identity Very-Long Baseline Array of Radi Telescopes Version Very Large Array (VLA) Identity Very-large-scale integration 3, 1 Very-Long Baseline Array of Radi Telescopes Vibration table Vibration table Vibration table Vibration table Vibration areas Video camera A	10, 84. 7, 126. 9, 35. 12, 50. 4, 149. 8, 96. 11, 134. 5, 141. 4, 112. 10, 128. 3, 86. 8, 77. 9, 116. 31, 9, 11. 54. 4, 54. 4, 56. 4, 56. 4, 96. 11, 106. 31, 19, 11. 570, 7, 66. 11, 106. 31, 106. 31, 106. 31, 106. 31, 106. 31, 31, 33.



Wasted scientific effort	9, 62.
Water distribution system	3, 74.
Waterhole III	4, 42.
Wave soldering	6, 96.
Wavelength-dispersive x-ray	
fluorescence	11, 134.
Wavelength distribution	11, 106.
Wavelengths of light	4, 35.
Way stations	7, 56.
Weak nuclear force	7, 64. 5, 201.
Weapons technology	5, 201.
Weather control	12, 17.
Weather patterns	6, 17; 9, 64.
Weather radar system	10, 135.
Weatherability	1, 50.
Weight in a vacuum	9, 69.
Weight in a vacuum Weightlessness Weldable strain gages	6, 155.
Weldable strain gages	1, 62.
Welded-metal bellows	5, 147.
Welding robot	6, 35.
Welfare programs	9, 92.
Western technology	6, 45; 7, 45.
Westinghouse Electric Co.	10, 104, 136;
	11, 66.
Wet friction material	7, 90.
Wheelchair	6, 35,
"Whisker" reinforcement fiber	8 4, 44.
Wideband satellite experimen	4, 76.
Wind energy	12, 40.
Wind tunnel	11, 68.
Windmills	12, 40.
Wine	7, 19. n <b>2</b> , 39.
Wireless entertainment system	n 2, 39.
Withdrawai of scientific paper	6, 29.
Women in R&D	5, 122. 12, 3.
Wood burning heating unit	12, 3.
Word processing	6, 82.
Wr~k force	9, 91.
Work plan	3, 138. 5, 23.
Workday	5, 23.
Workshop on Refractory Meta	
Silicides	12, 40.
World economy	9, 25.
World hunger	10, 17.
World peace	5, 11; 7, 124.
World politics	4, 182.
World's resources	11, 17.
Worldwide economies	11, 92.
Woven carbon fiber fabrics	9, 76.
—X, Y, Z—	
XRF spectroscopy XUV (Short-wavelength UV	11, 132.
XUV (Short-wavelength UV	7 50

11, 132.
5, 82,
10, 107.
12, 58.
10, 140.
11, 132,
1, 84,
6, 40,
12, 39.

X-ray stress measurement	1, 86
X-ray tomography	5, 43
Yamai gas pipeline	6, 47
Yankee ingenuity	3, 110; 5, 138
Yeast cells	4, 36
Yellow light frequency	9, 80
Yield point	7, 78
Young stars	3, 71; 9, 74
Ytterbium	4, 60

7, 64.
11, 99. 6, 74.
10, 161.
1, 37.
4, 123.
7, 76,
10, 104.
7, 60.

#### 1983 Authors Index

Agree, Ted 1,41; 2, 87; 3, 62; 4, 49;
5, 56; 6, 45; 7, 45; 8, 48; 9, 47; 10,54;
Anderson, D.C. 11, 49: 12, 45. 1, 80.
Anderson, D.C. 1, 80. Andrews, J. Edward 1, 89.
Anundson, Robert 9, 114.
Apelian, D. 11, 112.
Arnold, Steven M. 9, 110.
Baumann, Paul 9, 107.
Blanch, Harvey W. 8, 76.
Borden, P.G. 7, 99.
Bowers, W.D. 11, 124.
Brantley, V.B. 12, 78.
Brill, M. 2, 185.
Burge, D.E. 2, 151.
Campbell, Peter 3, 114.
Carey, Robert M. 5, 147.
Carr, Judy 2, 80.
Class, Walter 8, 115.
Cocke, David 8, 108. Czaja, S. 2, 185.
Davis, Andrew W. 2, 178.
Deleganes, S. 5, 118.
Derra, Skip 1, 46; 2, 56; 3, 52, 92; 4, 62;
5, 52; 6, 56; 7, 66; 8, 68; 9, 81; 10, 63;
11, 79.
Dewey, C. Forbes Jr. 5, 112.
DiCesare, Joseph L. 3, 130; 4, 110.
Dimock, Jack 11, 141.
Douglas, John H. 10, 143.
Drew, Donna M. 2, 100.
Fanali, Joseph R. 8, 82.
Feller, Jack 7, 94.
Finicle, Robert L. 6, 113.
Fisher, Jeff E. 2, 130.
Fisher, Walter E. 8, 98.

Geren, Geraid S. 1, 3 5, 29; 6, 29; 7, 27	: 8. 29: 9. 31: 10. 31:
Gilbert, Chet	11, 31; 12, 29. 2, 172; 5, 128.
Gill, Philip S. Golde, Roger A.	3, 104. 3, 136.
Grant, William B.	10, 154. 2, 136.
Graziano, Richard J. Gruber, Richard I.	4, 122.
Gwynne, Peter 1, 4	3; 2, 51; 3, 88; 5, 56,
Hamilton, C.H.	; 9, 49; 10, 45; 11, 56. 12, 72.
Hastings, M.D. Hayakawa, Shigeru	1, 80. 2, 142.
Haydon, Edwin 2, 51	; 6, 58; 8, 45; 12, 46.
Heinmiller, Robert Hengesh, B.	6, 82. 6, 109.
Hibi, Kiyokatsu	4, 102.
Hill, James W. Hill, Michael L.	2, 166. 8, 115.
Hodge, F. Galen	7, 82.
Holt, J. Birch Hornstein, J. Virgil	4, 88. 8, 82.
Hunter, R.L.	11, 124. 2, 130.
Jackson, Mark A. Jones, Robert R. 1,	1; 2, 11; 3, 11, 97; 4,
Jones, Robert R. 1, 11; 5, 11, 122; 6,	1; 7, 11; 8, 11; 9, 11;
Jueneman, Frederic E	10, 11; 11, 11; 12, 11. 3. 1, 19; 2, 17; 3, 17;
4, 17; 5, 17; 6, 17;	7, 19; 8, 19; 9, 17; 10, 17; 11, 17; 12, 17.
Lederberg, Joshua	9, 106.
Jupille, T.H. Kramer, Gideon	2, 151. 11, 132.
Lancione, Robert L.	2, 100.
Laverty, David P. Lawrence, Virginia	3, 110; 5, 134. 12, 90.
Lehrer, Robert	4, 116.
LeKuch, Herb McFarlin, D.	2, 172; 5, 128. 2, 185.
McIver, R.T. Jr. Margulis, S.T.	11, 124. 2, 185.
Miller, D.R.	12, 78.
Miller, J.R. Miller, Stephen	1, 80. 11, 98.
Molinari, Fred	2, 178.
Morant, Charles	7, 96.

Mosbacher, C.J. 1, 69; 2, 115, 12;	3; 8, 91; 11, 119.
Mutsuddy, Beebhas C. Nieberding, W.C. Obremski, Robert J. O'Brien, Bob Do Parr, Gary L. Pensak, David A. Price, G. Rook, Larry Ruud, Clayton O. Ruys, Theodorus Sarlor, R. Saunders, G. Thomas Scholes, William A. Schwartz, Jules J. Scott, Steven W. Sholz, F. Shoolery, James N. Sperroy, D. Starris, D.R. Stervens, Timothy S. Starris, D.R. Stevens, Timothy S. Starris, D.R. William, John J. Talcahashi, Milici Thomas, H.L. Togami, D.W. Tuffy, Harold VanderLinden, Dale Van Deusen, William Wada, Akio, Walker, Nicholas G. Ward, Ian D. White, William J. Voung, Dennis A. 4, 76; 6, 62, 7	6, 102. 4, 128. 11, 105. 5, 140. 11, 105. 5, 140. 11, 105. 5, 140. 11, 105. 5, 140. 11, 106. 6, 88. 1, 74. 4, 102. 5, 118. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
Zais, Arnold 9, 74	10, 58. 3, 127. 10, 148.
	Mutsuddy, Beebhas C. Nieberding, W.C. Obremski, Robert J. O'Brien, Bob Parr, Gary L. Pensak, David A. Price, G. Rook, Larry Ruud, Clayton O. Ruys, Theodorus Sarlor, R. Saunders, G. Thomas Scholes, William A. Schwartz, Jules J. Scott, Steven W. Sholz, F. Shoolery, James N. Sperry, D. Squire, David Starriban, Amichael Sullivan, John J. Talcahashi, Mikio Thomas, H.L. Togami, D.W. Tuffy, Harold VanderLinden, Dale Van Deusen, William VanderLinden, Dale Van Deusen, William VanderLinden, Dale Van Deusen, William Wada, Akio, Walker, Nicholas G. Ward, Ian D. White, William J. Voung, Dennie A. Voung, Den



